

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 and log data to improve our lives? However, this same data poses many new kinds of risks for people. How can we make privacy and security easily understandable by people who are not experts in computer science?

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 the emerging Internet of Things. I also use a lot of data from the crowd, typically crowdsourcing or social media data, both to better understand people's behaviors as well as to "outsource" the labor required to manage privacy and security.

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

- 2017 South Carolina Governor's School for Science and Math (SCGSSM) Alumni of the Year award
- 2017 CHI 2017 Honorable Mention (see [C.87])
- 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
- 2014-2016 HCII Career Development Faculty Fellowship
- 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 Ubicomp 2012 Best Paper Nominee (see [C.59])
- 2012 ICWSM 2012 Best Paper award (see [C.58])
- 2010 Alfred P. Sloan Research Foundation Fellowship
- 2008 CHI 2008 Honorable Mention (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

2018 – Now

Professor, Carnegie Mellon University, Human Computer Interaction Institute

Taught courses in human-computer interaction. Conducted research in HCI, usable privacy and security, and mobile & ubiquitous computing. Helped run Master's of Product Management.

Investigating **Social Cybersecurity** (with Sauvik Das, Cori Faklaris, Hyun-Jin Kim, Yunpeng Song, 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], [C.88], [C.91]*. Funded in part by NSF.

Member of **DARPA Brandeis** privacy project (with Mike Czapik, Haojian Jin, Tianshi Li, Yuanchun Li, Swarup Sahoo, Xinyu Yang, Han Zhang, Yuvraj Agarwal, Matt Fredrikson). The goal is to develop new techniques and user interfaces to help with privacy, with our team looking specifically at smartphone privacy. Is also the continuation of PrivacyGrade.org (see below). *In total, has led to [C.59], [C.66], [C.71], [C.72], [C.74], [C.82], [C.84], [C.89], [J.15], [J.17], [J.19], [J.21], [J.23], [J.24]*. Funded in part by DARPA, NSF, Google, NQ Mobile.

Served as co-director of Master's of Product Management program, joint with Tepper School of Business.

1993 – Now

Consulting

Advised companies on privacy, security, user interface design, user interface software implementation. Google, Samsung, Pew Internet, NetEase.com, NetRaker Corporation, Edealfinder.com, FXPAL, Dixie Dye

2008 – 2018

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 through NSF-supported funding. Was acquired by Proofpoint in Mar 2018 for \$225M.

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:

- Deloitte's 2016 Technology Fast 500 - Wombat ranked 144 on Deloitte's Technology Fast 500™ in 2016 and ranked as the fastest growing company in Pittsburgh.
- 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.

2010 – 2018

Associate Professor, Carnegie Mellon University, Human Computer Interaction Institute

Taught courses in human-computer interaction. Conducted research in human-computer interaction, usable privacy and security, and mobile & ubiquitous computing. Helped run Master's of HCI program for one year.

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] (best paper at ICWSM 2012), [C.90], [J.16], [J.22]. 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 develop 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 Mobile, 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].*

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.

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].

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

Spring 2018

(05-430) Programming Usable Interfaces

| #Students | Teaching (5 = high) | Course (5 = high) |
|-----------|------------------------|----------------------|
| 29 | 4.94 | 4.75 |

Fall 2017

(05-631 / 05-431 / 05-630 / 05-631) Programming Usable Interfaces

105 4.64 4.31

Combined two different courses, partially due to curriculum needs, partially due to another faculty leaving

| | | | | |
|-------------|---|----|------|------|
| Spring 2017 | (05-820 / 05-320) The Social Web | 56 | 4.55 | 4.25 |
| Fall 2016 | (05-630 / 05-430) Programming Usable Interfaces | 63 | 4.98 | 4.84 |
| Spring 2016 | (05-499 / 05-899) Mobile Health New course I organized for research topics in mobility, sensing, and healthcare | 24 | 4.5 | 4.5 |
| Fall 2015 | (05-499 / 05-899) Ubiquitous Personal Smart Agents New course I organized for research topics in intelligent agents | 12 | 5 | 4.88 |
| Sum 2015 | (05-672) MHCI Capstone, with Laura Ballay, Karen Berntsen, Skip Shelley, Leanne Libert | 60 | 3.77 | 3.55 |
| Spring 2015 | (05-671) MHCI Capstone, with Laura Ballay, Karen Berntsen, Skip Shelley, Leanne Libert | 60 | 4.17 | 3.69 |
| Sum 2014 | (05-672) MHCI Capstone, with Jenna Date, Karen Berntsen, Skip Shelley, Leanne Libert | 61 | 4.67 | 4.57 |
| Spring 2014 | (05-671) MHCI Capstone, with Jenna Date, Karen Berntsen, Skip Shelley, Leanne Libert | 61 | 4.38 | 4.45 |
| Fall 2012 | (05-320 / 05-820) The Social Web | 23 | 4.50 | 4.08 |
| Sum 2012 | (05-671) MHCI Capstone, with Jenna Date, Katie Scott, David Bishop | 51 | 4.19 | 4.13 |
| Spring 2012 | (05-898) HCI and Privacy Reading Seminar New reading seminar I organized for research topics in privacy | 9 | 4.40 | 4.80 |
| | (05-320 / 05-820) The Social Web, with Bob Kraut | 30 | 3.94 | 3.60 |
| Fall 2011 | (05-391 / 05-891) Designing Human-Centered Systems, with Jim Morris and Scott Davidoff | 19 | 4.15 | 4.15 |
| Sum 2011 | (05-671) MHCI Capstone, with Jenna Date and Katie Minardo Scott | 44 | 4.29 | 4.43 |
| Spring 2011 | (05-671) MHCI Capstone, with Jenna Date and Katie Minardo Scott | 45 | 4.56 | 4.62 |
| Fall 2010 | (05-320 / 05-820) The Social Web, with Niki Kittur | 22 | 4.33 | 4.25 |
| Spring 2010 | (05-391 / 05-891) Designing Human-Centered Systems | 25 | 4.17 | 4.08 |
| Fall 2009 | (05-320 / 05-820) The Social Web, with Bob Kraut | | N/A | N/A |
| Spring 2009 | (05-391) Designing Human-Centered Systems Revamped an old course previously taught by graduate students, re-purposed as a service course to the entire university for introducing undergraduates to HCI. | 34 | 4.42 | 4.25 |
| Fall 2008 | (05-320 / 05-820) The Social Web, with Bob Kraut | 31 | 4.29 | 3.76 |
| Spring 2008 | (05-430 / 05-630) Programming Usable Interfaces | 26 | 4.28 | 3.39 |
| Fall 2007 | (05-320 / 05-820) The Social Web, with Bob Kraut 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. | 30 | 4.47 | 4.05 |
| Spring 2007 | (05-899D) Research Topics in Ubiquitous Computing | | 3.8 | 4.0 |
| | (17-800) Usable Privacy and Security, with Lorrie Cranor | | 4.8 | 4.8 |
| | (17-500) _____ | | 5.0 | 5.0 |
| Fall 2006 | (05-631) Software Architectures for User Interfaces | | 4.4 | 4.1 |
| | (05-431) _____ | | 4.0 | 3.7 |
| Spring 2006 | (05-571A) Undergrad HCI Project Course 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]. | | 4.9 | 3.8 |
| | (05-899) Usable Privacy and Security, with Lorrie Cranor and Mike Reiter New course looking at research issues in designing usable privacy and security mechanisms. | | 5.0 | 4.47 |
| Fall 2005 | (05-631) Software Architectures for User Interfaces | | 4.3 | 3.8 |
| | (05-431) _____ Resulted in one student paper to ASSETS conference on assistive technologies, 2 plug-ins | | 2.7 | 2.2 |

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|-------------|---|-----|-----|
| | for the open source Quicksilver project, and conference paper [C.41]. | | |
| Spring 2005 | (05-571A) Undergrad HCI Project Course | 2.8 | 2.2 |
| Fall 2004 | (05-899I) Research Topics in Ubiquitous Computing 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]. | 4.2 | 4.1 |

University of California at Berkeley

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|-------------|--|--|--|
| 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 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

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|------------------------------|--|
| Graduated PhD students | Sauvik Das, CMU HCII (co-advised with Laura Dabbish, graduated Aug 2017) Currently an assistant professor at Georgia Tech Dissertation: Social Cybersecurity: Reshaping Security Through An Empirical Understanding of Human Social Behavior Dan Tasse, CMU HCII (graduated Aug 2017) Currently a data scientist at StitchFix Dissertation: How Geotagged Social Media Can Inform Modern Travelers Jason Wiese, CMU HCII (co-advised with John Zimmerman, graduated Sep 2015) Currently an Assistant Professor at University of Utah Dissertation: <i>Evolving the Ecosystem of Personal Behavioral Data</i> Eiji Hayashi, CMU HCII (graduated July 2015) Currently a software engineer at Google ATAP Dissertation: <i>UniAuth: Building a Human-Centered Identity Management System</i> Shahriyar Amini, CMU ECE (graduated May 2014) Currently a software engineer at Facebook, previously was a software engineer at Appthority and Google Dissertation: <i>Analyzing Mobile App Privacy Using Computation and Crowdsourcing</i> |
|------------------------------|--|

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 founded his own startup in China, was previously 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
 Cori Faklaris, CMU HCII (co-advised with Laura Dabbish)
 Fanglin Chen, CMU HCII
 Siyan Zhao, CMU HCII (co-advised with Bob Kraut)
 Haojian Jin, CMU HCII
 Tianshi Li, CMU CSD

Former PhD students
 Alex Sciuto, CMU HCII (co-advised with Jodi Forlizzi, inactive since 2017)
 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 (2016-2018), working on DARPA Brandeis privacy
 Eiji Hayashi (2015-2016), worked on Giotto Internet of Things infrastructure
 Afshaneh 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
 Yunpeng Song, Xi'an Jiaotong University (2017-2019), worked on social cybersecurity
 Xinyu Yang, Beijing University Posts and Technology (2017-2018), worked on PrivacyStreams
 Riyadh Alnasser, EPFL (2017-2018), worked on urban analytics of happiness in cities
 Yuanchun Li, Peking University (2016-2017), worked on PrivacyStreams programming model for privacy [J.24]
 Minyi Liu, Tsinghua University (2017), worked on PrivacyProxy and inferring network behaviors of apps
 Zhuqi Li, Peking University (2016), worked on urban analytics
 Manchen Wang, Peking University (2016), worked on World Knowledge Graph
 Mohit Sethi, visiting PhD student / Ericsson (2016), worked on IoT Hubs
 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, Peking University (2015), worked on detecting which apps are targeting children [C.84]
 Haoyu Wang, Peking University (2014-2015), worked on analyzing the privacy of smartphone apps [C.82, C.84, J.19]
 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

Joshua Ackerman, CMU (2017) NSF REU, worked on data scrubber for sensitive data
 Isabelle Edwards, CMU (2016) NSF REU, worked on urban analytics
 Zichen Liu, CMU (2016) NSF REU, worked on analyzing geotags
 William Li, CMU (2016) NSF REU, worked on urban analytics
 Hyun-Ji Kim, CMU (2015) NSF REU, worked on sending questions about urban settings to crowd
 Jennifer Tchou, 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

Bharadwaj Ramachandran for *Giotto: Building a Privacy-Aware Stack for the Internet of Things*.
 Advisors: Jason Hong and Yuvraj Agarwal
 Meeting of the Minds – 2017 Boeing Blue Skies Award / 1st place
 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

Justin Cranshaw, Carnegie Mellon University (ISR). *Utilizing the Urban Crowd to Enrich Computational Knowledge of Cities*. Proposed Apr 2014.
 Peter Landwehr, Carnegie Mellon University (SCS COS). *Labeling, Analyzing, and Simulating Tweets in Disasters*. Proposed Sep 2013.
 Jing Tian, University of South Carolina (CSE). *User Verification and Identification Based on 3D Passwords Captured by*

Motion Sensors. Proposed Feb 2014, completed December 2017.

Dan Tasse, Carnegie Mellon University (HCII). *Social Media Neighborhood Guides*. Proposed April 2016, completed August 2017.

Sauvik Das, Carnegie Mellon University (HCII). *Social Cybersecurity: Understanding and Leveraging Social Influence to Improve End-User Security Sensitivity*. Proposed March 2016, completed August 2017.

Jeff Rzeszotarski, Carnegie Mellon University (HCII). *Uninhibited Sensemaking: Revealing Nuances in Data at Scale*. Proposed January 2016, completed May 2017.

Blase Ur, Carnegie Mellon University (ISR). *Supporting Password-Security Decisions with Data*. Proposed July 2015, completed August 2016.

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.

Community Service

Editorial Boards

- 2013 – Now ACM Transactions on Human Computer Interaction, Associate Editor
- 2007 – Now Communications of the ACM (CACM) Editorial Board, Web site subboard
- 2007 – 2018 IEEE Pervasive Computing, Editorial Board (Associate Editor in Chief since 2013)
- 2011 – 2015 Foundations and Trends in Human Computer Interaction

Steering Committees

- 2012 – 2013 Location Based Social Networks (LBSN)
- 2009 – 2013 HotMobile
- 2007 – 2015 Symposium on Usable Privacy and Security

Guest Edited Journals

- 2018 IEEE Pervasive Computing, Special Issue on Accessibility
- 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

- 2018 CHI 2018 Subcommittee Chair for Visualization, Privacy, and Security, with Nathalie Riche
- 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 Mobisys 2018 External committee
- IEEE Symposium on Security and Privacy 2017 (Oakland Conference)
- 3rd International Workshop on IoT Privacy, Trust, and Security (IoTPTS 2017)
- 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)

Other Committees

- 2017 ACM SIGMOBILE Test of Time Paper Award Committee

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

| | | |
|-------------|--|--------------------------------------|
| 2017 – now | SCS Academic Head for Master’s of Product Management | SCS HCII, Carnegie Mellon University |
| 2018 | MHCI Admissions Committee | SCS HCII, Carnegie Mellon University |
| 2017 | MSPM Admissions Committee | SCS HCII, Carnegie Mellon University |
| 2016 | MHCI Admissions Committee | SCS HCII, Carnegie Mellon University |
| 2015 | MHCI Admissions Committee | SCS HCII, Carnegie Mellon University |
| 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) | SCS HCII, Carnegie Mellon University |
| 2011 | PhD Student Admissions committee | SCS HCII, Carnegie Mellon University |

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|------|---|---|
| 2010 | PhD Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | Curriculum committee | SCS HCII, Carnegie Mellon University |
| 2009 | BHCI Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | Curriculum committee | SCS HCII, Carnegie Mellon University |
| 2008 | Curriculum committee | SCS HCII, Carnegie Mellon University |
| 2007 | PhD Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | MHCI Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | BHCI Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | Curriculum committee | SCS HCII, Carnegie Mellon University |
| 2006 | PhD Student Admissions committee | SCS HCII, Carnegie Mellon University |
| | BHCI Student Admissions committee | 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 | CS Division, University of California at Berkeley |
| | Computer Science Grad Student Assoc (CSGSA) Librarian | CS Division, University of California at Berkeley |
| 2000 | Computer Science Grad Student Assoc (CSGSA) Librarian | CS Division, University of California at Berkeley |

Contract and Grant Support

Current Support

| | | |
|----------------|--|--|
| 2017 | Funder: Intel | |
| | Title: Hub for Ambient Devices in the Home | |
| | People: Jason Hong | |
| | Awarded: \$80,000 | |
| 2017–2020 | Funder: National Science Foundation | |
| | Title: Social Cybersecurity: Applying Social Influence to Improve Cybersecurity | |
| | People: Laura Dabbish (PI), Jason Hong | |
| | Awarded: \$1,200,000 | |
| 2017 | Funder: Google | |
| | Title: System Support for Privacy in the Internet of Things | |
| | People: Yuvraj Agarwal (PI), Jason Hong | |
| | Awarded: \$71,500 | |
| 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 - 2016 | 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 – 2012 Funder: Alfred P. Sloan Foundation
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 – 2014 Funder: National Science Foundation
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 – 2010 Funder: DARPA
Proposal: Solanum: Rapid End-User Programming and Visualizations for the Web
Awarded: \$478,625 / 2 years
People: Jason Hong (PI)

09/2006 – 2010 Funder: National Science Foundation CyberTrust CNS-0627513
Proposal: User-Controllable Security and Privacy for Pervasive Computing
Awarded: \$1,100,000 / 4 years
People: Lujjo Bauer, Lorrie Cranor, Jason Hong, Bruce McLaren, Norman Sadeh-Konieczpol (PI)

11/2007 – 2009 Funder: Nokia Research
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 – Funder: National Science Foundation Intelligent Information Systems IIS-0534406
 2008 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 – Funder: National Science Foundation CyberTrust CCF-0524189
 2008 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 – Funder: Intel Research
 2008 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 – Funder: CMU CyLab
 2007 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

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

Software Artifacts

| | |
|-----------------------|--|
| PrivacyProxy | <p>A proxy for smartphones to detect Personally Identifiable Information (PII). https://play.google.com/store/apps/details?id=io.privacyproxy</p> |
| PrivacyGrade | <p>Presents the results of our privacy analysis of a million Android apps. http://privacygrade.org</p> |
| Gort | <p>Tool for analyzing the privacy of individual Android apps https://github.com/samini/gort-public</p> |
| Mobility Monitor | <p>Android app for monitoring where people are going and what apps they use, available on Android App Market.</p> |
| Chelada | <p>Android app for creating context-aware mobile mashups, available on Android App Market.</p> |
| APWG Landing Page | <p>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</p> |
| CANTINA | <p>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].</p> |
| Anti-Phishing Testbed | <p>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].</p> |
| Anti-Phishing Phil | <p>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</p> |
| FoxTor | <p>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/</p> |
| Bustle | <p>Wide-area system for estimating how busy places are. Designed with James Fogarty, Pedram Keyani, and Karen Tang. See [C.18].</p> |
| Topiary | <p>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</p> |
| DENIM | <p>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</p> |
| SATIN | <p>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</p> |
| WebQuilt | <p>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</p> |

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.2] Tasse, D., and J.I. Hong. *Using User-Generated Content to Understand Cities*, in Seeing Cities Through Big Data. P. Thakuriah, N. Tilahun, and M. Zellner, Editors. 2016.
- [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.25] Towards Wearable Everyday Body-Frame Tracking using Passive RFIDs. PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT). To Appear.
- [J.24] Li, Y., F. Chen, T.J. Li, Y. Guo, G. Huang, M. Fredrikson, Y. Agarwal, J.I. Hong. PrivacyStreams: Enabling Transparency in Personal Data Processing for Mobile Apps. PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT) 1(3). 2017.
http://www.cmuchimps.org/publications/privacystreams_enabling_transparency_in_personal_data_processing_for_mobile_apps_2017
- [J.23] Chitkara, S., N. Gothoskar, S. Harish, J.I. Hong, Y. Agarwal. Does this App Really Need My Location? Context aware Privacy Management on Android. PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT) 1(3). 2017.
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- [IT.87] What does your smartphone know about you? CHI-Lites. April 22, 2018.
- [IT.86] Understanding and Improving Smartphone Privacy. Center for Information Technology Policy (CITP), Princeton. April 17, 2018.
- [IT.85] Toward a Safe and Secure Internet of Things. TTI Vanguard on Risk, Security, and Privacy. September 12, 2017.
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- [IT.84] *Social Cybersecurity: Applying Social Psychology to Cybersecurity*. SecHuman Summer School, Ruhr University. July 31, 2017.
- [IT.83] *Privacy and Security for the Emerging Internet of Things*. CMU CUPS Research Seminar. February 23, 2017.
- [IT.82] *Privacy and Security for the Emerging Internet of Things*. Intel iSecCon 2016. November 9, 2016.
- [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.
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- [IT.76] *PrivacyGrade and Social Cybersecurity*. Federal Trade Commission (FTC). July 9, 2015.
- [IT.75] *PrivacyGrade and Social Cybersecurity*. Future of Privacy Forum (FPF). July 9, 2015.
- [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.
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- [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.
<http://www.youtube.com/watch?v=HPaspqN6znl>
- [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.
- [IT.49] *Security Education Research*. eRisc webinar, Sept 20, 2012.
- [IT.48] *Social Graphs, Urban Analytics, and Smartphone Privacy*. Samsung Information Systems America, July 20 2012.
- [IT.47] *Social Graphs, Urban Analytics, and Smartphone Privacy*. Facebook, July 19 2012.
- [IT.46] *Social Graphs, Urban Analytics, and Smartphone Privacy*. Google Tech Talk, July 18 2012.
- [IT.45] *Social Graphs, Urban Analytics, and Smartphone Privacy*. Microsoft Research, June 29 2012.
<http://research.microsoft.com/apps/video/default.aspx?id=169643>
- [IT.44] *You've Got Humans on Your Network: Securing the End-User*. ISSA Webinar, May 22 2012.
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- [IT.43] *Leveraging Human Factors for Effective Security Training*. Federal Information Systems Security Educators' Association (FISSEA 2012). March 29 2012.
- [IT.42] *Location Privacy for Mobile Computing*. Cylab Seminar Feb 21 2011.
- [IT.41] *Teaching Johnny Not to Fall for Phish*. ISSA Pittsburgh. Feb 1 2011.

- [IT.40] *Cybercrime in the Enterprise: Are Your Employees Putting You at Risk?* RSA Webinar, Sep 23, 2010.
- [IT.39] *Statistical Analysis of Phished eMail Users, Intercepted by the APWG/CMU Phishing Education Landing Page*. APWG CeCOS (Counter-eCrime Operations Summit). May 12, 2009.
- [IT.38] *Usable Privacy and Security: A Grand Challenge for HCI*. Human Computer Interaction Consortium (HCIC) 2009. Feb 5, 2009.
- [IT.37] *Usable Privacy and Security: Protecting People from Phishing Scams*. University of Washington. Jan 27, 2009.
- [IT.36] *Privacy and Utility in Mobile Social Applications*. Nokia Research Center. July 9, 2008.
- [IT.35] *User Interfaces and Algorithms for Fighting Phishing*. IBM China. June 16, 2008.
- [IT.34] *Privacy and Sensor Andrew*. CenSCIR Symposium. May 6, 2008.
- [IT.33] *User Interfaces and Algorithms for Fighting Phishing*. University of Pittsburgh LERSAIS Seminar Series (Laboratory of Education and Research on Security Assured Information Systems). Nov 2, 2007.
- [IT.32] *Privacy and Ubiquitous Computing*. CMU MSR Mindswap. October 19, 2007.
- [IT.31] *User Interfaces and Algorithms for Fighting Phishing*. MIT HCI Seminar Series. Sep 28, 2007.
- [IT.30] *User Interfaces and Algorithms for Fighting Phishing*. CMU HCII Seminar. Sep 26, 2007.
- [IT.29] *Understanding and Capturing People's Privacy Policies in a People Finder Application*. Workshop on Privacy, at Ubicomp 2007. Sep 16, 2007.
- [IT.28] *User Interfaces and Algorithms for Fighting Phishing*. CyLab Seminar Talk. Aug 1, 2007.
- [IT.27] *Mobile and Location-based Services*. Bosch Research and Technology Center (Palo Alto). Mar 4, 2007.
- [IT.26] *Two Rants on Mobile Computing*. Intel Ultra-Mobile Devices Workshop. Feb 20, 2007.
- [IT.25] *Usable Privacy and Security: Trust, Phishing, and Pervasive Computing*. Georgia Institute of Technology. Jan 28, 2007.
- [IT.24] *Making Mashups with Marmite*. PARC ISL. Jan 9, 2007.
- [IT.23] *Usable Privacy and Security: Trust, Phishing, and Pervasive Computing*. PARC CSL. Jan 9, 2007.
- [IT.22] *Usable Privacy and Security: Trust, Phishing, and Pervasive Computing*. FXPAL. Jan 8, 2007.
- [IT.21] *User Interfaces and Algorithms for Fighting Phishing*. Google TechTalk. Jan 4, 2007.
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- [IT.20] *User-Controllable Privacy and Security for Pervasive Computing*, Nokia Research Center, Palo Alto. Jan 3, 2007.
- [IT.19] *Usable Privacy and Security*. University of Pittsburgh, Computer Science Colloquium, October 10, 2006.
- [IT.18] *Smart Homes Aren't Just About the House*. Chinese Institute of Engineers, October 15, 2005.
- [IT.17] *Four Rants on Ubicomp and Privacy*. Intel Usable Privacy Forum, March 02, 2005.
- [IT.16] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. University of Salzburg, April 26, 2004.
- [IT.15] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. University of California at Berkeley, April 19, 2004.
- [IT.14] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. University of Minnesota, April 15, 2004.
- [IT.13] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. University of Illinois, Urbana-Champaign, April 13, 2004.
- [IT.12] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. Stanford Database Privacy Group, April 07, 2004.
- [IT.11] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. Carnegie Mellon University, April 01, 2004.
- [IT.10] *An Architecture for Privacy-Sensitive Ubiquitous Computing*. University of Wisconsin, March 29, 2004.
- [IT.9] *Tools for Web Design and for Ubiquitous Computing*. PARC Whistle, April 06 2004.
- [IT.8] *Privacy in the Age of Ubiquitous Computing*. USER Seminar, IBM Almaden. Mar 10 2004.
- [IT.7] *Privacy in the Age of Ubiquitous Computing*. People, Computers, & Design Seminar. Stanford University. Mar 5 2004.
- [IT.6] *Privacy in the Age of Ubiquitous Computing*. Accenture. Mar 5 2004.
- [IT.5] *Privacy in the Age of Ubiquitous Computing*. Communication Brown Bag Talk, Stanford University. Feb 10 2004.
- [IT.4] *History and Location Extensions to SpeakEasy*. PARC Computer Science Laboratory, Dec 11, 2002.
- [IT.3] *A Study of Firefighting in the Coming Age of Ubiquitous Computing*. PARC Computer Science Laboratory, Nov 20, 2002.

With Xiaodong Jiang, Leila Takayama, and James Landay.

[IT.2] *Using Design Patterns to Create Customer-Centered Web Sites*, BayCHI. October 08, 2002.
With Doug van Duyn and James Landay.

[IT.1] *An Overview of Context-Aware Computing*. University of California at Berkeley, Multimedia Interfaces and Graphics Seminar (MIG). April 25, 2001.

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[IP.17] A.I. for Good. Capitol Hill Briefings. June 20, 2018.

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[IP.16] Voice Assistants, UX Design and Research. CHI 2018. April 23, 2018.

[IP.15] HCI Panel – A Smarter Tomorrow. CMU Summit on US-China Innovation and Entrepreneurship. April 14, 2018.

[IP.14] Rise of the Machines. New America. Sep 23, 2016

<https://www.newamerica.org/cybersecurity-initiative/events/cybersecurity-and-automation/>

[IP.13] Connect x Salon. Cheetah Mobile. June 8, 2016.

[IP.12] CMU Connections. Integrative Conference on Technology, Social Media, and Behavioral Health (University of Pittsburgh). May 2, 2016. With LP Morency and Bob Kraut.

[IP.11] From infosec to cyber: What's changed? International Conference on Information Systems Security and Privacy (ICISSP) 2016. Feb 19, 2016.

[IP.10] Usability, Privacy, Policy. Carnegie Mellon University, for Army War College. August 4, 2015.

[IP.9] Data Privacy Day Panel. Carnegie Mellon University. January 28 2013.

[IP.8] State of the Mobile Net, The State of Mobile Apps: The What and Where of Mobile Privacy. Congressional Internet Caucus. May 26, 2011.

[IP.7] Data Privacy Day Panel. Carnegie Mellon University, January 26 2011.

[IP.6] Hacking Comes of Age: Climategate, Cyber-Espionage and iWar. Carnegie Mellon University, March 18 2010.

[IP.5] Panel on Social Networking – Your Personal and Business Information in the Wild. RSA 2010, March 4 2010.

[IP.4] Panel on Human-Computer Interaction. IBM Research Day at CMU, October 12, 2007.

[IP.3] *Sensornet 2.0*. Microsoft Faculty Summit 2007, July 17, 2007.

[IP.2] *Can We Attain Secure Mobile Computing Anytime Soon?* WMCSA 2006 (Workshop on Mobile Computing Systems and Applications), April 7, 2006. With Carl Ellison, Steve Gribble, and Helen Wang

[IP.1] *Prototyping and Building Systems*. At “Usable Privacy When Privacy is Ubiquitous”, sponsored by Intel Research, Hillsboro. March 02, 2005. With Atul Prakash and David Redmiles

Patents

[P.12] Context-aware cybersecurity training systems, apparatuses, and methods. US Patent# 9,870,715. Jan 16 2018. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.

[P.11] Discovering neighborhood clusters and uses therefor. US Patent# 9,846,887. Dec 19 2017. J Cranshaw, R Schwartz, JI Hong, N Sadeh-Konieczpol.

[P.10] Mock attack cybersecurity training system and methods. US Patent# 9,558,677. Jan 31 2017. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.

[P.9] Context-aware training systems, apparatuses, and methods. US Patent# 9,547,998. Jan 17 2017. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.

[P.8] Method and system for controlling context-aware cybersecurity training. US Patent# 9,373,267. Jun 21 2016. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong

[P.7] Method and apparatus for dynamically delivering service profiles to clients, US Patent# 7668903, Issued Feb 23, 2010. Warren Keith Edwards, Mark Webster Newman, Trevor Fredrick Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason I. Hong.

[P.6] Methods, apparatus, and program products for abstract applications, US Patent# 7620737, Issued Nov 17, 2009. Mark

- W. Newman, W. Keith Edwards, Jana Z. Sedivy, Trevor F. Smith, Jason Hong, Shahram Izadi, Karen J. Marcelo.
- [P.5] System and method for enabling components on arbitrary networks to communicate, US Patent# 7526482, Issued Apr 28, 2009. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.
 - [P.4] Methods, systems, apparatus and program products for gathering contextual history from components in an environment and applying an operation on the gathered history to assist a user in selecting which components to use in the environment, US Patent# 7461172, Issued Dec 2, 2008. Mark W. Newman, W. Keith Edwards, Jason Hong, Shahram Izadi, Karen J. Marcelo, Jana Z. Sedivy, Trevor F. Smith.
 - [P.3] System and method for controlling communication, US Patent# 7433915, Issued Oct 7, 2008. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.
 - [P.2] Method and system for handling data, US Patent# 7367029, Issued Apr 29, 2008. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.
 - [P.1] Method and system for unifying component metadata, US Patent# 7133872, Issued Nov 7 2006. Edwards, W. K., M. Newman, T. Smith, J. Sedivy, K. Marcelo, S. Izadi, J.I. Hong

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- [Blog.20] The Emerging Technology Landscape in China. May 25, 2016.
<http://cacm.acm.org/blogs/blog-cacm/202777-the-emerging-technology-landscape-in-china/fulltext>
- [Blog.19] Yet Another Major Data Breach, But Will This Time Be Any Different? December 11, 2014.
<http://cacm.acm.org/blogs/blog-cacm/181208-yet-another-major-data-breach-but-will-this-time-be-any-different>
- [Blog.18] Human Subjects Research for the Twenty-First Century, or, What Can We Learn from the Facebook Mood Study?
<http://cacm.acm.org/blogs/blog-cacm/176894-human-subjects-research-for-the-twenty-first-century-or-what-can-we-learn-from-the-facebook-mood-study/fulltext>
- [Blog.17] Privacy and Google Glass. Aug 26, 2013.
<http://cacm.acm.org/blogs/blog-cacm/167230-privacy-and-google-glass/fulltext>
- [Blog.16] Reaching for Engelbart's Vision of the Future. July 12, 2013.
<http://cacm.acm.org/blogs/blog-cacm/165962-reaching-for-engelbarts-vision-of-the-future/fulltext>
- [Blog.15] PhDs from the Faculty's Perspective. Nov 5, 2012.
<http://cacm.acm.org/blogs/blog-cacm/157012-phds-from-the-facultys-perspective/fulltext>
- [Blog.14] Most Smartphone Apps are Spyware. Feb 17, 2012.
<http://cacm.acm.org/blogs/blog-cacm/146122-most-smartphone-apps-are-spyware/fulltext>
- [Blog.13] Is the Computer Security Community Barking Up the Wrong Trees?, Dec 15 2011.
<http://cacm.acm.org/blogs/blog-cacm/144349-is-the-computer-security-community-barking-up-the-wrong-trees/fulltext>
- [Blog.12] Password Policies are Getting Out of Control, August 23 2011. Also see [O.12]
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- [Blog.11] Why Have There Been So Many Security Breaches Recently?, April 27 2011
<http://cacm.acm.org/blogs/blog-cacm/107800-why-have-there-been-so-many-security-breaches-recently/fulltext>
- [Blog.10] Design, Functionality, and Diffusion of Innovations, February 6 2011. Also see [O.11]
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- [Blog.9] Why is Great Design so Hard (Part Two)?, August 23 2010, also see [O.10]
<http://cacm.acm.org/blogs/blog-cacm/97958-why-is-great-design-so-hard-part-two/fulltext>
- [Blog.8] Why is Great Design so Hard? July 21, 2010, also see [O.9]
<http://cacm.acm.org/blogs/blog-cacm/96476-why-is-great-design-so-hard/fulltext>
- [Blog.7] Malvertisements Growing as Online Security Threat, May 11 2010, also see [O.8]
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- [Blog.6] Helping Younger People Protect Themselves from Security Attacks, May 18 2009
<http://cacm.acm.org/blogs/blog-cacm/28479-helping-younger-people-protect-themselves-from-security-attacks/fulltext>
- [Blog.5] Designing Effective Security Warnings, April 22 2009, also see [O.6]
<http://cacm.acm.org/blogs/blog-cacm/24724-designing-effective-security-warnings/fulltext>
- [Blog.4] Security Education Can Really Work (but Only if it's Done Right), April 22 2009

<http://cacm.acm.org/blogs/blog-cacm/24723-security-education-can-really-work-but-only-if-its-done-right/fulltext>

[Blog.3] Privacy as... Sharing More Information?, March 18 2009, also see [O.5]

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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)