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## 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 behavioral data to improve our lives? At the same time, this same data poses many new kinds of risks. How can we make privacy and security easily understandable by people who are not experts? How can we ensure that machine learning models built on this data is fair, accountable, transparent, and ethical?

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 make use of data from crowdsourcing or social media, both to better understand people's behaviors as well as to "outsource" the labor required to manage privacy and security.

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### 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)

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### Academic Honors and Awards

- 2023 South Carolina Governor's School for Science and Math (SCGSSM) Commencement Speaker  
See <http://confabulator.blogspot.com/2023/05/speech-for-scgssm-2023-commencement.html>
- 2023 Best Research Paper 2019-2021 in Pervasive and Mobile Computing (for contact tracing analysis, see [J.29])
- 2023 CHI 2023 Best Paper Award (for AI and Homeless Services, see [C.115])
- 2023 Asia-Pacific Artificial Intelligence Association (AAIA) Fellow
- 2022 ACM Fellow
- 2022 ICWSM Test of Time Award (for Livehoods, see [C.58])
- 2022 CHI 2022 Honorable Mention (for evaluating Privacy Nutrition Labels, see [C.108])
- 2020 Ubicomp 2020 Best Wearables Long Paper (for RFID Tattoo, see [J.28])
- 2020 CHI Academy (for individuals who have made substantial contributions to the field of human-computer interaction)
- 2018 Ubicomp 2018 / ISWC 2018, Honorable Mention Demo (for Body-Frame Tracking using Passive RFIDs, see [J.25])
- 2017 South Carolina Governor's School for Science and Math (SCGSSM) Alumni of the Year award
- 2017 CHI 2017 Honorable Mention (for Thumprint, see [C.88])
- 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 (for QuiltView Crowd-Sourced Video, see [C.68])
- 2013 Ubicomp 2013 Best Paper award (for Autobiographical Authentication, see [C.65])
- 2013 PopTech Science Fellow
- 2012 Kavli Fellow
- 2012 Ubicomp 2012 Best Paper Nominee (for Crowdsourcing Privacy of Smartphone Apps, see [C.59])

- 2012 ICWSM 2012 Best Paper award (for Livehoods, see [C.58])
- 2010 Alfred P. Sloan Research Foundation Fellowship
- 2008 CHI 2008 Honorable Mention (for Effectiveness of Web Browser Phishing Warnings, 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
- 1993 National Merit Semifinalist

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## Boards

- 2021 - Now Advisory Board, mHealth Center for Discovery, Optimization & Translation of Temporally-Precise Interventions (mDOT NIH Center)  
<https://mdot.md2k.org/>
- 2020 - 2023 Board of Trustees, SCGSSM Foundation  
<https://www.scgssm.org/support/gssm-foundation-board>
- 2008 - 2018 Board of Directors, Wombat Security Technologies

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## Professional Employment

- 2018 - Now **Professor**, Carnegie Mellon University, Human Computer Interaction Institute  
Teaching courses in human-computer interaction. Conducting research in HCI, usable privacy and security, mobile & ubiquitous computing, and FATE (Fairness, Accountability, Transparency, Ethics).  
Investigating **AI Fairness** (with Alex Cabrera, Alicia Devos, Charvi Rastogi, Motahhare Eslami, Ken Holstein, Adam Perer, Nihar Shah, Hong Shen). Funded in part by Block Center and NSF. *Led to papers* [C.103], [C.105], [C.112], [C.113], [C.114], [C.115], [C.116].  
Investigating **IoT Privacy and Security** (with Yuvraj Agarwal and Haojian Jin). Funded in part by NSF, CyLab, and Infineon. *Led to papers* [C.107], [C.110], [J.25], [J.28], [J.29], [J.30].  
Investigating **Social Cybersecurity**, examining the use of social influences to improve people’s awareness, knowledge, and motivation to be more secure online (with Sauvik Das, Cori Faklaris, Hyun-Jin Kim, Isadora Krsek, Junchao Lin, Yunpeng Song, and Laura Dabbish). *Led to papers* [C.73], [C.76], [C.80], [C.88], [C.91], [C.94], [C.96], [C.97], [C.100], [C.104], [C.106], [J.35]. Funded in part by NSF.  
Investigating **Smartphone Privacy**. This work includes **DARPA Brandeis** Privacy-Enhanced Android, developing new user interfaces and developer tools to improve privacy (with Mike Czapik, Haojian Jin, Tianshi Li, Yuanchun Li, Swarup Sahoo, Xinyu Yang, Han Zhang, Yuvraj Agarwal, Matt Fredrikson); and PrivacyGrade.org. *Led to papers* [C.59], [C.66], [C.71], [C.72], [C.74], [C.82], [C.84], [C.89], [C.101], [C.108], [C.111], [J.15], [J.17], [J.19], [J.21], [J.23], [J.24], [J.26], [J.27], [J.31], [J.32]. Funded in part by DARPA, NSF, Google, NQ Mobile.  
Serving as academic advisor for **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. Facebook, Google, Samsung, Pew Internet, NetEase.com, NetRaker, 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. Helped write business plans, map out product lines, do business development, raise

funding, and do multiple talks and webinars.

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

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.

Developed tools to infer onset of **depression** using smartphone data (with Afsaneh Doryab, Janne Lindqvist, Jun Ki Min, Jason Wiese, John Zimmerman), by modeling social relationships [C.62], physical activities, and sleep patterns [C.70]. *Led to conference papers [C.45], [C.49], [C.55], [C.62], [C.70], [C.75], and [C.79]. Led to media [M.90], [M.91].* Funded in part by DARPA and Google.

Investigating **Urban Analytics**, which applied machine learning to discover insights about urban areas by analyzing the large quantities of social media its residents generate (with Justin Cranshaw, Dan Tasse, and Norman Sadeh). *Led to conference paper [C.58] (best paper at ICWSM 2012), [C.90], [J.16], [J.22]. Led to media [M.60], [M.61], [M.63], [M.64], [M.65], [M.66], [M.67], [M.68], [M.69], [M.123].*

Developed **PrivacyGrade.org**, which investigated better tools and the use of crowdsourcing to facilitate privacy analysis of Android apps (with Shah Amini, Jialiu Lin, Song Luan, Mike Villena, Norman Sadeh). *Led to conference papers [C.59], [C.66], [C.71], [C.72], [C.74], [C.82]. 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.

Developed **UniAuth** (formerly Context-Aware Scalable Authentication) to simplify authentication for cloud computing and ubicomp services by leveraging the rich array of onboard sensors on our smartphones (with Sauvik Das, Eiji Hayashi, and Ian Oakley). *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 **Master's of Human-Computer Interaction** program 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. *Led to conference paper [C.22] and [c.9]*. Funded in part by DARPA and NSF.

Developed **Next-Generation Instant Messaging**, looking at convergence of mobility, multimodal input and output, and location information for instant messaging (with Karen Tang). *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**, helping end-users make better security decisions in the context of anti-phishing (with Pls Alessandro Acquisti, Lorrie Cranor, Sven Dietrich, Julie Downs, Norman Sadeh). *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**, to help capture and refine end-user preferences for location disclosure and other kinds of services in pervasive computing (with Pls Lorrie Cranor, Bruce McLaren, Norman Sadeh). *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.

1998 - 2004

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

Investigated support and applications of ubiquitous computing, investigating issues of privacy (see [C.9] [C.10] [C.12] [C.13] [c.4] [J.2] [J.3] [w.1] [w.3] [w.4]), design patterns (see [B.1] [C.14]), and emergency response for firefighters (see [C.10] [C.11]).

Helped develop WebQuilt remote web logging and visualization software to help web designers find and understand web usability problems. *Co-supervised three undergrads with colleague Sarah Waterson. 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 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 toolkit 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 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]*.

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## Teaching

Some feedback from students on my teaching since 2004 at Carnegie Mellon University (in roughly reverse

chronological order):

- It was definitely a privilege for me to take this class with Jason Hong. He is single-handedly the best lecturer I've had here at CMU... (Please give this man a raise if possible; he is a CMU treasure.)
- Jason is one of the best professors I've ever met. His lecture is interesting, clear and motivating. He cares whether students are understanding what he teach. He values students' questions, opinions and participation.
- Jason Hong is my favorite professor at CMU, possibly my favorite professor of all time. His passion for the content and for his students shines through when giving lectures. I had gone into this course with programming and UX design experience and his course still taught me a lot.
- Jason is an excellent professor who has a demonstrated passion for teaching and for our learning. His lectures were ALWAYS enjoyable, relevant, and easy to understand. He really knows how to scope a course, learning objectives, and I felt that the entire experience was well-thought out.
- Jason Hong is my favorite professor so far. He's a great, engaging lecturer who effectively teaches material in an organized manner. He also brings a valuable industry perspective to his lectures and updates material based on student and industry feedback and the latest trends. He clearly cares about students' learning and goes the extra mile.
- 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.
- My favorite prof of all time!!!! Jason is definitely a personal inspiration for me. Learned a lot from this course & research, thanks again.
- Jason is one of the most passionate, humble professors that I've encountered at CMU. His lectures are fun and informative and his exams are fair.
- This class taught me a lot and I really enjoyed it. Jason is a great professor and is very knowledgeable about design. He is kind and cares for his students.
- Jason showed genuine care for all his students and passion for the course material. He even took time out of regular class to meet with students and check in with them personally.
- One of my favorite classes at CMU. It was great learning about both the design side of HCI and the getting experience on the technical end.
- Loved how fun the midterm/final were (specifically the quotes and the nice images / the general encouragement on the test). Loved the teaching of the class, Professor Hong made it super fun and super engaging - especially when he brought his special guests!
- The lectures are super fun and informative! Big shout out to Jason he is always very considerate of his students. Jason is one of the most passionate and engaging professors I've had at CMU. He truly cared about what he was teaching us and made it clear that he just wanted us to succeed in the course.

### Carnegie Mellon University

		#Students	Teaching (5 = high)	Course (5 = high)
Spring 2021	(05-430) Programming Usable Interfaces	56	4.81	4.76
Fall 2020	(05-899C) Fairness, Accountability, Transparency, and Ethics	15	4.81	4.56
Fall 2019	(05-630 / 05-430) Programming Usable Interfaces	99	4.78	4.39
Fall 2018	(05-430) Programming Usable Interfaces	107	4.49	4.20
Spring 2018	(05-430) Programming Usable Interfaces	29	4.94	4.75
Fall 2017	(05-631 / 05-431 / 05-630 / 05-631) Programming Usable Interfaces Combined two different courses, partially due to curriculum needs, partially due to another faculty leaving CMU	105	4.64	4.31
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	5.0	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	9	4.40	4.80

	New reading seminar I organized for research topics in privacy			
	(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 plugins for the open source Quicksilver project, and conference paper [C.41].		2.7	2.2
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
	<b>University of California at Berkeley</b>			
Sum 2004	User Interface Design, Prototyping, and Evaluation, with 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

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## **Academic Advising**

Graduated  
PhD  
students

- Tianshi Li, CMU HCII (graduated May 2023)  
Currently an assistant professor at Northeastern University  
Dissertation: *Privacy Annotations: Designing Privacy Support for Developers*
- Haojian Jin, CMU HCII (co-advised with Swarun Kumar, graduated Sep 2022)  
Currently an assistant professor at UC San Diego  
Dissertation: *Modular Privacy Flows: A Design Pattern for Data Minimization*
- Cori Faklaris, CMU HCII (co-advised with Laura Dabbish, graduated June 2022)  
Currently an assistant professor at UNC Charlotte  
Dissertation: *Toward a Socio-Cognitive Stage Model of Cybersecurity Behavior Adoption*
- Siyao Zhao, CMU HCII (co-advised with Bob Kraut, graduated Mar 2021)  
Currently a UX researcher at Google, previously a UX researcher at ClassKick  
Dissertation: *Understanding the Effect of Everyday Social Interactions on Well-Being*
- Sauvik Das, CMU HCII (co-advised with Laura Dabbish, graduated Aug 2017)  
Currently an asst professor at Carnegie Mellon University, previously an asst prof 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: *Evolving the Ecosystem of Personal Behavioral Data*
- Eiji Hayashi, CMU HCII (graduated July 2015)  
Currently a software engineer at Google ATAP  
Dissertation: *UniAuth: Building a Human-Centered Identity Management System*
- Shahriyar Amini, CMU ECE (graduated May 2014)  
Currently a software engineer at Databricks, previously a software engineer at Appthority, Google, and Facebook  
Dissertation: *Analyzing Mobile App Privacy Using Computation and Crowdsourcing*
- Jialiu Lin, CMU CSD (co-advised with Norman Sadeh, graduated Sep 2013)



Currently a software engineer at Waymo, previously was 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 Associate 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)

Currently a software engineer at Mastercard Data & Services, 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 Alex Cabrera, CMU HCII (co-advised with Adam Perer)

Former PhD  
students Fanglin Chen, CMU HCII (inactive since 2020)  
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)

Staff Isadora Krsek (2019-present), worked on social cybersecurity [C.109]  
Mike Czapik (2018-present), worked on DARPA Brandeis smartphone privacy project  
Cheul Young Park (2017-2018), worked on social cybersecurity and romantic relations [C.94]  
Jay Springfield (2010-2011), worked on mobile mashups

Postdocs George Hope Chidziwisano (2021-2023), working on sensors, privacy, and patriarchy in Malawi. Currently an assistant professor at University of Tennessee.  
Hong Shen (2018-present), working on AI Fairness [C.103] and mobile payments in China [C.102]. Currently an assistant research professor at Carnegie Mellon University.  
Swarup Sahoo (2016-2018), worked on DARPA Brandeis privacy.  
Eiji Hayashi (2015-2016), worked on Giotto Internet of Things infrastructure. Was at Google ATAP.  
Afsaneh Doryab (2012-2014), worked on augmented social graph and detecting depression [C.70, w.23]. Currently an assistant professor at University of Virginia, was previously a systems scientist at CMU.  
Jun Ki Min (2011-2014), worked on augmented social graph [C.62], sleep monitor [C.70], and detecting depression. Currently at Microsoft Azure, was previously at Motorola.  
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 associate professor at Aalto University, was previously an assistant professor at Rutgers University.

Visiting  
Scholars Beatrice Kieninger, MS student at Karlsruhe Institute of Technology (2019-2020), worked on classifying text messages  
Bonkeum Susana Jeong, Assistant Professor at University of Madeira (2019), worked on cybersecurity  
Isha Ghosh, Rutgers University (2019), worked on social cybersecurity  
Yunpeng Song, PhD student from Xi'An Jiaotong University (2017-2019), worked on social cybersecurity [C.100] and

## IoT Hub [C.101]

Xinyu Yang, PhD student from Beijing University Posts and Technology (2017-2018), worked on PrivacyStreams  
Riyadh Alnasser, MS student from EPFL (2017-2018), worked on urban analytics of happiness in cities  
Yuanchun Li, PhD student from Peking University (2016-2017), worked on PrivacyStreams programming model [J.24]  
Minyi Liu, undergrad from Tsinghua University (2017), worked on PrivacyProxy and network behaviors of apps  
Zhuqi Li, undergrad from Peking University (2016), worked on urban analytics  
Manchen Wang, undergrad from 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 [J.26, T.8]  
Ke Xu, PhD student from Singapore Management Univ. (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

Maxwell Chien (2022), worked on WeAudit site for Algorithmic Auditing  
Khushi Wadhwa (2021-2022), worked on WeAudit site for Algorithmic Auditing  
Ruhan Prasad (2021-2022), worked on WeAudit site for Algorithmic Auditing  
Elijah Neundorfer, Columbus University (2019) NSF REU, worked on Coconut plug-in for Brandeis project [J.32]  
Tiffany Trinh, MIT (2019), worked on Plants vs Hackers game for social cybersecurity project  
Annie Chen, CMU (2019), worked on Plants vs Hackers game for social cybersecurity project  
Geyang Qin, CMU (2019), worked on IoT Hub  
Andrew Yang, CMU (2019), worked on IoT Hub  
Jessica Zhao, CMU (2019), worked on smartphone user interfaces for privacy for Brandeis project  
Evelyn Kuo, CMU (2019), worked on PrivacyStreams extensions for Brandeis project  
Cindy Jiang, CMU (2019), worked on PrivacyStreams extensions for Brandeis project  
Yile Clara Liu, CMU (2019), worked on PrivacyStreams extensions for Brandeis project  
Gus Umbelino, UCSD (2018), worked on Safesea plugin for social cybersecurity project  
Rosie Sun, CMU (2018), worked on Safesea plugin for social cybersecurity project  
Jacob Strieb, CMU (2018), worked on web site showcasing smartphone network traffic for Brandeis project

Abraham Riedel-Mishaan, CMU (2018), worked on Anyone Analyze Apps infrastructure for Brandeis project  
 Maxwell Johnson, CMU (2018), worked on locators for IoT devices  
 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

Peter Landwehr, Carnegie Mellon University (SCS ISR). *Labeling, Analyzing, and Simulating Tweets in Disasters*. Proposed Sep 2013.  
 Alex Cabrera, Carnegie Mellon University (SCS HCII). *Behavior-Driven AI Development*. Proposed July 2023.  
 Youngwook Do, Georgia Institute of Technology. *Physicalizing Security and Privacy: Exploring Physically Intuitive Design to Build Users Trust in Using Ubiquitous Sensors*. Proposed Dec 2022, completed June 2023.  
 Ryan Shi, Carnegie Mellon University (SCS ISR). *Learning and Planning Towards AI for Social Good*. Proposed May 2021, completed May 2023.  
 Tianshi Li, Carnegie Mellon University (SCS HCII). *Privacy Annotations: Designing Privacy Support for Developers*. Proposed Mar 2022, completed May 2023.  
 Haojian Jin, Carnegie Mellon University (SCS HCII). *Modular Privacy Flows: A Design Pattern for Data Minimization*. Proposed Nov 2021, completed August 2022.  
 Cori Faklaris, Carnegie Mellon University (SCS HCII). *Toward a Socio-Cognitive Stage Model of Cybersecurity Behavior Adoption*. Proposed Oct 2021, completed June 2022.  
 Justin Cranshaw, Carnegie Mellon University (SCS ISR). *Depicting Places in Information Systems: Closing the Gap Between Representation and Experience*. Proposed Apr 2014, completed June 2022.

Abhinav Jauhri, Carnegie Mellon University (ECE). *Real-World Data Driven Characterization of Urban Human Mobility Patterns*. Proposed May 2018, completed May 2021.

Diogo Marques, University of Lisbon. *Understanding Social Insider Intrusions to Personal Computing Devices*. Completed April 2021.

Siyan Zhao, Carnegie Mellon University (SCS HCII). *Behavioral Pathways Linking Social Interactions to Mental Health*. Proposed Oct 2019, completed March 2021.

Joseph Seering, Carnegie Mellon University (SCS HCII). *Supporting Volunteer Moderation Practices in Online Communities*. Proposed Aug 2019, completed August 2020.

Alexandra To, Carnegie Mellon University (SCS HCII). *Empowering Uncertainty Resolution for Vulnerable Populations*. Proposed Aug 2019, completed July 2020.

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 (SCS HCII). *Social Media Neighborhood Guides*. Proposed April 2016, completed August 2017.

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

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

Kenneth Joseph, Carnegie Mellon University (SCS 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 (SCS HCII). *Enabling an Ecosystem of Personal Behavioral Data*. Proposed May 2013, completed September 2015.

Eiji Hayashi, Carnegie Mellon University (SCS 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 (SCS 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). *"Sometimes Less is More": Multi-Perspective Exploration of*

*Disclosure Abstractions in Location-Aware Social Mobile Applications*. Completed 2010.

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

Steve Sheng, Carnegie Mellon University (EPP). *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

Prerit Pathak, CMU INI, *Creating Accurate Privacy Nutrition Labels Through Cross-Platform Code Annotation*. Completed May 2023.

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

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

Paula Cravo, CMU INI / Portugal, *Security Protocols for Mobile Finance*. Completed Dec 2011.

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## Service Work

### Editorial Boards

- 2013 - 2021 ACM Transactions on Human Computer Interaction (TOCHI), 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

### External Review Boards

- 2019 Carleton University, Human-Computer Interaction program

### Habilitation

- 2021 Daniel Gonçalves, INESC-ID, Instituto Superior Técnico, Universidade de Lisboa

### 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 Co-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

- 2018 Mobisys 2019 External committee
- 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)
  - 3<sup>rd</sup> 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**

- 2020 Computing Innovation Fellows 2020 Reviewer
- 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**

#### **Service at Carnegie Mellon University**

- 2021 - now University Faculty Review Committee
- 2020 - now SCS Internals Committee (for appointments to internal positions)
- 2020 - 2021 HCII Awards Committee
  - 2019 SCS Dean Search Committee
- 2019 - 2021 SCS Reappointment and Promotion Committee
- 2018 - now HCII Curriculum Committee
- 2017 - now SCS Academic Head for Master's of Product Management
  - SCS Master's Heads group (MSPM)
  - 2018 MHCI Admissions Committee
  - 2017 MSPM Admissions Committee
  - 2016 MHCI Admissions Committee
  - 2015 MHCI Admissions Committee
- 2013 - 2014 Professional Programs Committee
- 2013 - 2014 Director of Master's of HCI Program
  - 2013 Space Committee
- 2011 - 2013 Faculty Senate (HCII)
  - 2011 PhD Student Admissions committee
  - 2010 PhD Student Admissions committee
    - Curriculum committee
  - 2009 BHCI Student Admissions committee
    - Curriculum committee
  - 2008 Curriculum committee
  - 2007 PhD Student Admissions committee
    - MHCI Student Admissions committee
    - BHCI Student Admissions committee

- Curriculum committee
- 2006 PhD Student Admissions committee  
BHCI Student Admissions committee
- 2005 PhD Student Admissions committee
- Service at University of California at Berkeley**
- 2002 PhD admissions committee
- 2001 PhD admissions committee  
Computer Science Grad Student Assoc (CSGSA) Librarian
- 2000 Computer Science Grad Student Assoc (CSGSA) Librarian

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## Contract and Grant Support

### Current Support

- 2023 Modeling Barriers to Self-Custody for Cryptocurrency Novices  
 Funder: CMU SecureBlockchain@CyLab  
 Researchers: Sauvik Das (PI), Jason Hong  
 Awarded: \$5,000
- 2023 Engaging End Users and Developers to Improve App Store Privacy Audits  
 Funder: CMU CyLab  
 Researchers: Tianshi Li (PI), Yuvraj Agarwal, Jason Hong  
 Awarded: \$45,000
- 2022 Zeno  
 Funder: Mozilla Technology Fund  
 Researchers: Adam Perer (PI), Jason Hong  
 Awarded: \$50,000
- 2021 - 2024 Organizing Crowd Audits to Detect Bias in Machine Learning  
 Funder: National Science Foundation and Amazon  
 Researchers: Jason Hong (PI), Motahhare Eslami, Ken Holstein, Adam Perer, Nihar Shah, Hong Shen  
 Awarded: \$1,000,000

### Past Support

- 2022 Thirty-Day Adulthood Challenge  
 Funder: CMU CyLab  
 Researchers: Laura Dabbish (PI), Jason Hong  
 Awarded: \$45,000
- 2021 Harnessing Everyday Users' Collective Power to Audit Algorithmic Bias in AI Systems  
 Funder: Cisco  
 Researchers: Motahhare Eslami (PI), Ken Holstein, Jason Hong, Adam Perer, Nihar Shah, Hong Shen  
 Awarded: \$100,000
- 2021 Peekaboo: Providing Architectural Support for Building Privacy-sensitive Smart Home Apps  
 Funder: Cisco  
 Researchers: Jason Hong (PI), Yuvraj Agarwal, Swarun Kumar  
 Awarded: \$100,000
- 2020 Helping People Manage Privacy Settings Using Social Influences  
 Funder: Facebook  
 Researchers: Jason Hong (PI), Laura Dabbish  
 Awarded: \$100,000
- 2020 Organizing Crowd Workers to Categorize Bias in ML Systems with Bias Bounties  
 Funder: Amazon



	<p>People: Jason Hong (PI), Nina Balcan, Adam Perer, Hong Shen</p> <p>Awarded: \$50,000 (\$40,000 + \$10k AWS Credits)</p>
2020	<p>RAPID: Collaborative Research: Social interactions, social connectedness, and health outcomes during the COVID-19 pandemic</p> <p>Funder: National Science Foundation</p> <p>Researchers: Robert Kraut (PI), Jason Hong, Tom Kamarck</p> <p>Awarded: \$173,979</p>
2020	<p>Designing Alternative Representations of Confusion Matrices to Evaluate Public Perceptions of Fairness in Machine Learning</p> <p>Funder: Amazon</p> <p>Researchers: Jason Hong (PI), Hong Shen</p> <p>Awarded: \$90,000 (\$80,000 + \$10k AWS Credits)</p>
2018-2022	<p>End-to-End Support for Privacy in the Internet of Things</p> <p>Funder: National Science Foundation</p> <p>Researchers: Yuvraj Agarwal (PI), Jason Hong</p> <p>Awarded: \$1,100,000</p>
2017-2022	<p>Social Cybersecurity: Applying Social Influence to Improve Cybersecurity</p> <p>Funder: National Science Foundation</p> <p>Researchers: Laura Dabbish (PI), Jason Hong</p> <p>Awarded: \$1,200,000</p>
2015-2020	<p>Reconciling Purpose, Data Privacy, and User Preferences: A Holistic Approach to Managing Privacy</p> <p>Funder: DARPA (Brandeis Program)</p> <p>Researchers: Jason Hong (PI), Yuvraj Agarwal, Matt Fredrikson, Eran Toch</p> <p>Awarded: \$2,998,896</p>
2019-2020	<p>Evaluating People's Perceptions of Fairness in Machine Learning</p> <p>Funder: Block Center</p> <p>Researchers: Jason Hong (PI), Hong Shen, Nina Balcan, Ariel Procaccia</p> <p>Awarded: \$75,000</p>
2017-2019	<p>Hub for Ambient Devices in the Home</p> <p>Funder: Intel</p> <p>Researchers: Jason Hong</p> <p>Awarded: \$240,000</p>
2019	<p>IoTHub</p> <p>Funder: Infineon</p> <p>Researchers: Jason Hong (PI)</p> <p>Awarded: \$75,000</p>
2019	<p>IoTHub for Managing and Securing Devices in the Home</p> <p>Funder: CyLab</p> <p>Researchers: Jason Hong (PI)</p> <p>Awarded: \$75,000</p>
2017	<p>System Support for Privacy in the Internet of Things</p> <p>Funder: Google</p> <p>Researchers: Yuvraj Agarwal (PI), Jason Hong</p> <p>Awarded: \$71,500</p>
2016	<p>Using Purpose Information to Improve User Privacy on Smartphones</p> <p>Funder: Google</p> <p>Researchers: Yuvraj Agarwal (PI), Jason Hong</p> <p>Awarded: \$71,500</p>
2015	<p>Unrestricted gift</p> <p>Funder: IBM Faculty Award</p>

	Awarded: \$40,000
2015	GloTTO: A Rapidly-Deployable Platform for an End-User Oriented Internet of Things Funder: Google Researchers: Anind Dey (PI), Yuvraj Agarwal, Chris Harrison, Jason Hong, Andrew Moore, Mahadev Satyanarayanan, Anthony Rowe Awarded: \$400,000
2014 - 2017	Using the Crowd to Summarize Web Site Privacy Policies and Terms of Use Policies Funder: National Science Foundation (TWC-1422018) Researchers: Jason Hong (PI) Awarded: \$499,290
02/2014	Chelada: Integrating the Web with Context-Aware Mobile Computing Funder: Google Researchers: Jason Hong (PI) Awarded: \$82,500
01/2014	Smartphone privacy Funder: NQ (through CMU CyLab) Awarded: \$65,000
07/2013 - 2016	Social Cybersecurity: Applying Social Psychology to Improve Cybersecurity (EAGER) Funder: National Science Foundation Researchers: Jason Hong (PI), Laura Dabbish Awarded: \$200,000 / 2 years
09/2012 - 2015	Capturing People's Expectations of Privacy with Mobile Apps with Automated Scanning and Crowdsourcing Funder: National Science Foundation Awarded: \$1.2M (\$799,956 to CMU) Researchers: Jason Hong (PI), Janne Lindqvist, Joy Zhang
02/2013	CrowdScanning: Combining Crowdsourcing, Static Analysis, and Dynamic Analysis for Mobile App Privacy and Security Funder: Google Awarded: \$85,000 Researchers: Jason Hong (PI)
02/2013	Urban Analytics Funder: Scott Institute Seed Grants Researchers: Nina Baird, Jason Hong Awarded: \$10,000
11/2013	Chelada: Integrating the Web with Context-Aware Mobile Computing Funder: Samsung Awarded: \$100,000
07/2013	QuiltView: Glass-Sourced Video for Google Maps Queries Funder: Google Researchers: Mahadev Satyanarayanan (PI), Jeff Bigham, Jason Hong, Dan Siewiorek, Asim Smailagic Awarded: \$28,000 + 10 Google Glass
12/2012	Successfully Starting Online Groups Funder: Google Researchers: Robert Kraut (PI), Laura Dabbish, Jason Hong, Niki Kittur Awarded: \$150,000
04/2012 - 2013	Real - World Analytics: Combining social networks and smartphones to understand social graphs and behaviors Funder: DARPA (through SPAWAR) Researchers: Jason Hong (PI), Joy Zhang, John Zimmerman Awarded: \$1,680,313 (cut to \$418,000 due to sequestration)
04/2012 -	Using Crowdsourcing to Analyze and Summarize the Security of Mobile Applications

2013	Funder: CMU NSA Lablet / Army Research Office Researchers: Jason Hong (PI), Norman Sadeh Awarded: \$142,893
01/2012	Improving Mobile App Privacy by Combining Automated Analysis and Crowdsourcing Techniques Funder: Google Researchers: Jason Hong (PI) Awarded: \$68,000 / 1 year
06/2011	Building an Enhanced Social Graph by Mining Smartphone Sensor and Communication Data Funder: Google Researchers: Jason Hong (PI), John Zimmerman Awarded: \$70,000 / 1 year
01/2011	Social Behavior Sensing and Reality Mining Funder: Google Researchers: Jason Hong (PI), Joy Zhang Awarded: \$50,000 / 1 year
08/2010 - 2012	Alfred P. Sloan Foundation Fellowship Researchers: Jason Hong (PI) Awarded: \$50,000 / 2 years
07/2010	Android App Scanner Funder: CMU CyLab Researchers: Jason Hong (PI) Awarded: \$85,000 / 1 year
01/2010	Context-Aware Mobile Mashups Funder: Google Researchers: Jason Hong (PI), John Zimmerman Awarded: \$75,000 / 1 year
2009 - 2014	IGERT: Usable Privacy and Security Funder: National Science Foundation Awarded: \$3.2M (PI: Lorrie Cranor)
07/2009	Visualizing Home Networks Funder: CMU CyLab Researchers: Jason Hong (PI) Awarded: \$85,000 / 1 year
06/2009	Unrestricted gift Funder: Nokia Research Researchers: Jason Hong (PI) Awarded: \$7,000
05/2008 - 2010	Solanum: Rapid End-User Programming and Visualizations for the Web Funder: DARPA Researchers: Jason Hong (PI) Awarded: \$478,625 / 2 years
09/2006 - 2010	User-Controllable Security and Privacy for Pervasive Computing Funder: National Science Foundation CyberTrust CNS-0627513 Researchers: Lujo Bauer, Lorrie Cranor, Jason Hong, Bruce McLaren, Norman Sadeh-Konieczpol (PI) Awarded: \$1,100,000 / 4 years
11/2007 - 2009	User-Controllable Security and Privacy Funder: Nokia Research Researchers: Jason Hong, Norman Sadeh Awarded: \$100,000 / 2 years

07/2008 Empowering Mobile Users to Effectively Control their Privacy in a Friend Finder Application:  
Scaling up to a Campus-wide Pilot  
Funder: CMU CyLab  
Researchers: Lorrie Cranor, Jason Hong, Norman Sadeh (PI)  
Awarded: \$300,000 / 1 year

07/2008 Towards an Internet Immune System  
Funder: CMU CyLab  
Researchers: Jason Hong (PI)  
Awarded: \$75,000 / 1 year

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

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

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

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

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

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

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

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

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

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

- 04/2005 - 2007 Privacy and Usability in Pervasive Computing Environments  
 Funder: CMU CyLab  
 Researchers: Lorrie Cranor, Jason Hong, Bruce McLaren, Norman Sadeh-Konieczpol (PI), Peter Steenkiste  
 Awarded: \$268,867 and \$150,000 / 2 years
- 06/2006 Development of New Course: Usable Privacy and Security  
 Funder: Microsoft Trustworthy Computing Curriculum 2005  
 Researchers: Lorrie Cranor (PI), Jason Hong, Mike Reiter  
 Awarded: \$50,000 / 1 year
- 04/2005 Preventing Semantic Attacks  
 Funder: CMU CyLab  
 Researchers: Lorrie Cranor (PI), Jason Hong, Norman Sadeh-Konieczpol, Alessandro Acquisti, Julie Downs  
 Awarded: \$203,988 / 1 year
- 03/2005 Unrestricted gift  
 Funder: Microsoft Corporation  
 5 i-Mate SP3 Windows Mobile Devices (~\$2,224.95)

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## Software Artifacts

- Zeno Zeno AI Data Management & Evaluation Platform. See [C.116]  
<https://zenoml.com/>
- Matcha Matcha | An IDE plugin for Creating Google Play Safety Labels  
<https://matcha-ide.github.io/>
- Coconut Software plug-in for IntelliJ and Android Studio to help with privacy. See [J.27] and [J.32].  
<https://coconut-ide.github.io/>
- Peekaboo Peekaboo: A Hub-Based Approach to Enable Transparency in Data Processing within Smart Homes. See [C.110].  
<https://github.com/CMUChimpsLab/Peekaboo>
- Lean Privacy Review Lean Privacy Review: Collecting users' privacy concerns about your data practice at a low cost. See [J.30].  
<http://leanprivacyreview.com/>
- Privacy Streams Software library for Android offering a new programming model for privacy. See [J.24].  
<https://privacystreams.github.io/>
- PrivacyProxy A proxy for smartphones to detect Personally Identifiable Information (PII). See [T.8].  
<https://play.google.com/store/apps/details?id=io.privacyproxy>
- PrivacyGrade Presents the results of our privacy analysis of a million Android apps. See [C.59] and [C.74].  
<http://privacygrade.org>
- Gort Tool for analyzing the privacy of individual Android apps  
<https://github.com/samini/gort-public>
- Livehoods Web site for urban analytics, clustering foursquare check-in data [C.58]  
<http://livehoods.org/>
- 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](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>

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## 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*. 2<sup>nd</sup> edition. Reading, MA: Addison-Wesley, 2006. <http://www.designofsites.com>
- As of October 2013, our book has sold over 80000 copies since its initial publication in 2001. Used in classes in at least 10 different universities.

### Book Chapters

- [BC.3] Hong, J.I. Designing for Privacy in Mobile Sensing Systems. In *Mobile Sensing in Psychology: Methods and Applications*. M. Mehl, M. Eid, C. Wrzus, G. Harari, and U.W. Ebner-Priemer, Editors. 2023.
- [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.35] Das, S., C. Faklaris, J.I. Hong, L.A. Dabbish. The Security & Privacy Acceptance Framework (SPAF). *Foundations and Trends in Privacy and Security* 5 (1-2), 1-143. 2023.
- [J.34] Longitudinal associations of social support, everyday social interactions, and mental health during the COVID-19 pandemic. *Journal of Social and Personal Relationships*. To Appear.
- [J.33] Jin, H., J. Wang, S. Kumar, J.I. Hong. Software-Defined Cooking Using a Microwave Oven. *Communications of the ACM*, December 2021, Vol. 64 No. 12, Pages 95-103. **Featured as Research Highlight**. <https://cacm.acm.org/magazines/2021/12/256933-software-defined-cooking-using-a-microwave-oven/fulltext>
- [J.32] Li, T. E.B. Neundorfer, Y. Agarwal, J.I. Hong. Honeysuckle: Annotation-Guided Code Generation of In-App Privacy Notices. *PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)*. 5(3). 2021.
- [J.31] Li, T., Haines, J.K., Ruiz de Eguino, M.F., Hong, J.I., Nichols, J. Alert Now or Never: Understanding and Predicting Notification Preferences of Smartphone Users. *ACM Transaction of Computer Human Interaction (TOCHI)*. 2021.
- [J.30] Jin, H., H. Shen, M. Jain, S. Kumar, J.I. Hong. Lean Privacy Review: Collecting Users' Privacy Concerns of Data Practices

at a Low Cost. *ACM Transaction of Computer Human Interaction (TOCHI)*. 28(5). 2021.

- [J.29] Li, T., Cobb, C., Yang, J., Baviskar, S., Agarwal, Y., Li, B., Bauer, L., Hong, J.I. What Makes People Install a COVID-19 Contact-Tracing App? Understanding the Influence of App Design and Individual Difference on Contact-Tracing App Adoption Intention. *Pervasive and Mobile Computing*. Vol 75. 2021. **Best Research Paper 2019-2021 Award**. <https://doi.org/10.1016/j.pmcj.2021.101439>
- [J.28] Wang, J., C. Pan, H. Jin, V. Singh, Y. Jain, J.I. Hong, C. Majidi, S. Kumar. RFID Tattoo: A Wireless Platform for Speech Recognition. *PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)*. 2019. **Won Best Wearables Long Paper**.
- [J.27] Li, T., Y. Agarwal, J.I. Hong. Coconut: An IDE plugin for developing privacy-friendly apps. *PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)*. 2(4). 2018.
- [J.26] Jin, H., M. Liu, K. Dodhia, Y. Li, G. Srivastava, M. Fredrikson, Y. Agarwal, J.I. Hong. "Why are they collecting my data?": Inferring the Purposes of Network Traffic in Mobile Apps. *PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)*. 2(4). 2018.
- [J.25] Jin, H., Z. Yang, S. Kumar, and J.I. Hong. Towards Wearable Everyday Body-Frame Tracking using Passive RFIDs. *PACM on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)* 1(4). 2017.
- [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](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. [http://www.cmuchimps.org/publications/does\\_this\\_app\\_really\\_need\\_my\\_location\\_context-aware\\_privacy\\_management\\_for\\_smartphones\\_2017](http://www.cmuchimps.org/publications/does_this_app_really_need_my_location_context-aware_privacy_management_for_smartphones_2017)
- [J.22] Zhang, Y., B. Li, J.I. Hong. Using Online Geotagged and Crowdsourced Data to Understand Human Offline Behavior in the City: An Economic Perspective. *ACM Transactions on Intelligent Systems and Technology (ACM TIST)*. 9(3). Feb 2018. [http://www.cmuchimps.org/publications/using\\_online\\_geotagged\\_and\\_crowdsourced\\_data\\_to\\_understand\\_human\\_offline\\_behavior\\_in\\_the\\_city\\_an\\_economic\\_perspective\\_2017](http://www.cmuchimps.org/publications/using_online_geotagged_and_crowdsourced_data_to_understand_human_offline_behavior_in_the_city_an_economic_perspective_2017)
- [J.21] Hong, J.I. The Privacy Landscape for Pervasive and Ubiquitous Computing. *IEEE Pervasive*. 16(3). Sep 2017. [http://www.cmuchimps.org/publications/the\\_privacy\\_landscape\\_for\\_pervasive\\_and\\_ubiquitous\\_computing\\_2017](http://www.cmuchimps.org/publications/the_privacy_landscape_for_pervasive_and_ubiquitous_computing_2017)
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- [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 (ACM TIST)*. 5(3): pp. 1-46. 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](http://www.cmuchimps.org/publications/cohesion_and_community_the_effects_of_space_place_and_time_on_foursquare_check-ins_in_new_york_city_2014)
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### Refereed Conference Papers (full and short papers)

- [C.116] Cabrera, Á.A., Fu, E., Bertucci, D., Holstein, K., Talwalkar, A., Hong, J.I., Perer, A. Zeno: An Interactive Framework for Behavioral Evaluation of Machine Learning. In *ACM Conference on Human Factors in Computing Systems (CHI 2023)*. 2023. [27.6% acceptance rate]



- [C.115] Kuo, T., Shen, H., Geum, J., Jones, N., Hong, J.I., Zhu, H., Holstein, K. Understanding Frontline Workers' and Unhoused Individuals' Perspectives on AI Used in Homeless Services. In *ACM Conference on Human Factors in Computing Systems (CHI 2023)*. 2023. **Best Paper Award**. [27.6% acceptance rate]
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- [T.1] Abowd, G.D., C.G. Atkeson, J.I. Hong, S. Long, R. Kooper, and M. Pinkerton, *Cyberguide: A Mobile Context-Aware Tour Guide*. Technical Report nctrl.gatech\_gvu/96-27 / GVU Technical Report 96-27, Georgia Institute of Technology 1997.

### Invited Talks

- [IT.100] Helping Developers with Privacy. University of Wisconsin-Madison Distinguished Lecture. Dec 11, 2023.
- [IT.99] AI and Healthcare. Coalition for the CommonHealth (C4CH) Workforce Taskforce. July 14, 2023.
- [IT.98] Algorithmic and AI Bias. SC Governor's School for Science and Math. July 12, 2023.
- [IT.97] Helping Developers with Privacy. Brigham Young University. Nov 3, 2022.
- [IT.96] Future Technologies Summit on China-U.S. Innovation and Entrepreneurship. Feb 26, 2022.
- [IT.95] Privacy for Mobile Sensing Systems. **CHIuXiD keynote**. Oct 20, 2020.  
<https://www.slideshare.net/jas0nh0ng/privacy-for-mobile-sensing-systems>
- [IT.94] Smartphone Privacy. CMU Futures Summit. Oct 19, 2019.  
[https://www.youtube.com/playlist?list=PLLtfwOgUllJnMrXzdF3Cfi1L\\_6E9Y6xf5](https://www.youtube.com/playlist?list=PLLtfwOgUllJnMrXzdF3Cfi1L_6E9Y6xf5)
- [IT.93] Security and Privacy Challenges for IoT. Security, Privacy and Human Behavior. **RSA Conference**. Mar 4, 2019.  
<https://www.slideshare.net/jas0nh0ng/security-and-privacy-challenges-for-iot>
- [IT.92] How We Will Fail in Privacy and Ethics for the Emerging Internet of Things. UCSD HDSI Mini Symposium on Security + Privacy. February 28, 2019.  
<https://www.slideshare.net/jas0nh0ng/how-we-will-fail-in-privacy-and-ethics-for-the-emerging-internet-of-things>
- [IT.91] Are My Devices Spying On Me? Living in an Age of Ubiquitous Computing. Lakehead University, "Rise of the Machines". February 26, 2019.  
<https://www.slideshare.net/jas0nh0ng/are-my-devices-spying-on-me-living-in-a-world-of-ubiquitous-computing>
- [IT.90] Fostering an Ecosystem for Smartphone Privacy. MIT. Jan 25, 2019.  
<https://www.slideshare.net/jas0nh0ng/fostering-an-ecosystem-for-smartphone-privacy>
- [IT.89] Fostering an Ecosystem for Smartphone Privacy. MIS Speaker Series, Eller College of Management, University of Arizona. Nov 3, 2018.  
<https://www.slideshare.net/jas0nh0ng/fostering-an-ecosystem-for-smartphone-privacy>
- [IT.88] Helping Developers with Privacy. **VL/HCC 2018 keynote**. Oct 2, 2018.  
<https://www.slideshare.net/jas0nh0ng/helping-developers-with-privacy>
- [IT.87] What does your smartphone know about you? CHI-Lites. April 22, 2018.  
[https://www.youtube.com/watch?v=kD8-WBtYN5I&list=PLqhXYFYmZ-VdDRNTdu1\\_2x2tppvGP8938&index=3&t=0s](https://www.youtube.com/watch?v=kD8-WBtYN5I&list=PLqhXYFYmZ-VdDRNTdu1_2x2tppvGP8938&index=3&t=0s)
- [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.  
[http://www.ttivanguard.com/conference/2017/risk-security-privacy\\_agenda.html](http://www.ttivanguard.com/conference/2017/risk-security-privacy_agenda.html)
- [IT.84] *Social Cybersecurity: Applying Social Psychology to Cybersecurity*. SecHuman Summer School, Ruhr University. July 31, 2017.  
<https://www.slideshare.net/jas0nh0ng/social-cybersecurity-applying-social-psychology-to-cybersecurity-at-sechuman-workshop-july-2017>
- [IT.83] *Privacy and Security for the Emerging Internet of Things*. CMU CUPS Research Seminar. February 23, 2017.  
<https://www.slideshare.net/jas0nh0ng/privacy-and-security-for-the-emerging-internet-of-things>
- [IT.82] *Privacy and Security for the Emerging Internet of Things*. Intel iSecCon 2016. November 9, 2016.  
<https://www.slideshare.net/jas0nh0ng/privacy-and-security-for-the-emerging-internet-of-things>
- [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=PL7m903CwFUglhwXRm6f\\_Ypk112nAX7yDL](https://www.youtube.com/watch?v=NQEs_OQfg-M&index=3&list=PL7m903CwFUglhwXRm6f_Ypk112nAX7yDL)
- [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. <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. <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.  
<http://www.issa.org/page/?p=450>
- [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.  
<https://www.youtube.com/watch?v=bfXQDKaByR0>
- [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.

### **Invited Panels**

- [IP.22] Education vs Awareness Roundtable. SecurityJourney. Sept 26, 2022.
- [IP.21] CMU Asian Leadership Union: Our Asian Experience. March 26, 2021.
- [IP.20] The Science of Pandemic Technology: Trading Privacy for Effectiveness in Exposure Notifications: A Debate. March 11, 2021.  
<https://www.wehealth.org/partners/science-of-pandemic-technology>
- [IP.19] The Policy Forum at AT&T. May 29, 2019.  
<https://policyforum.att.com/>
- [IP.18] Psybersecurity Workshop, at Association for Psychological Science. May 23, 2019.  
<https://psybershop.weebly.com/program.html>
- [IP.17] A.I. for Good. Capitol Hill Briefings. June 20, 2018.  
<http://cmuaijune2018.splashthat.com> <https://www.youtube.com/watch?v=5xiV-36339U>
- [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.17] System and Method for Heating an Item in a Microwave Oven. Pending. JI Hong, H Jin, S Kumar, J Wang.  
<https://patents.google.com/patent/US20220141928A1>
- [P.16] System and Method for Tracking a Shape. Pending. H Jin, J Wang, SKS Kumar, JI Hong.  
<https://patents.google.com/patent/US20210180937A1>
- [P.15] System and Method for Tracking a Body. Pending. H Jin, Z Yang, SKS Kumar, JI Hong.  
<https://patents.google.com/patent/US20200375497A1>
- [P.14] Unified Authentication Management System. Patent US 10,810,295. Oct 20 2020. E. Hayashi, J. Hong.  
<https://patents.google.com/patent/US10810295>
- [P.13] Assessing security risks of users in a computing network. Patent US 10,749,887 B2. Aug 18 2020. T.T. Hawthorn, N. Sadeh-Konieczpol, N. Miller, J. LoSapio, K. Wescoe, J. Brubaker, J. Hong  
<https://patents.google.com/patent/US10749887B2/>
- [P.12] Context-aware cybersecurity training systems, apparatuses, and methods. Patent US 9,870,715 B2. Jan 16 2018. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.  
<https://patents.google.com/patent/US9870715B2>
- [P.11] Discovering neighborhood clusters and uses therefor. Patent US 9,846,887. Dec 19 2017. J Cranshaw, R Schwartz, JI Hong, N Sadeh-Konieczpol.  
<https://patents.google.com/patent/US9846887B1>
- [P.10] Mock attack cybersecurity training system and methods. Patent US 9,558,677. Jan 31 2017. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.  
<https://patents.google.com/patent/US9558677B2/>
- [P.9] Context-aware training systems, apparatuses, and methods. Patent US 9,280,911 B2. Mar 08 2016. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong.  
<https://patents.google.com/patent/US9280911B2>
- [P.8] Method and system for controlling context-aware cybersecurity training. Patent US 9,373,267 B2. Jun 21 2016. N Sadeh-Konieczpol, K Wescoe, J Brubaker, J Hong  
<https://patents.google.com/patent/US9373267B2/>
- [P.7] Method and apparatus for dynamically delivering service profiles to clients, Patent US 7,668,903 B2. Feb 23 2010. Warren Keith Edwards, Mark Webster Newman, Trevor Fredrick Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason I. Hong.  
<https://patents.google.com/patent/US7668903B2>
- [P.6] Methods, apparatus, and program products for abstract applications, Patent US 7620737, Issued Nov 17, 2009. Mark W. Newman, W. Keith Edwards, Jana Z. Sedivy, Trevor F. Smith, Jason Hong, Shahram Izadi, Karen J. Marcelo.  
<https://patents.google.com/patent/US7620737>
- [P.5] System and method for enabling components on arbitrary networks to communicate, Patent US 7526482, Issued Apr 28, 2009. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.  
<https://patents.google.com/patent/US7526482>
- [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, Patent US 7461172, Issued Dec 2, 2008. Mark W. Newman, W. Keith Edwards, Jason Hong, Shahram Izadi, Karen J. Marcelo, Jana Z. Sedivy, Trevor F. Smith  
<https://patents.google.com/patent/US7461172>
- [P.3] System and method for controlling communication, Patent US 7433915, Issued Oct 7, 2008. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.  
<https://patents.google.com/patent/US7433915>

- [P.2] Method and system for handling data, Patent US, Issued Apr 29, 2008. Warren Keith Edwards, Mark Webster Newman, Trevor Smith, Jana Zdislava Sedivy, Karen Marcelo, Shahram Izadi, Jason Hong.  
<https://patents.google.com/patent/US7367029>
- [P.1] Method and system for unifying component metadata, Patent US, Issued Nov 7 2006. Edwards, W. K., M. Newman, T. Smith, J. Sedivy, K. Marcelo, S. Izadi, J.I. Hong  
<https://patents.google.com/patent/US7133872>

### **Communications of the ACM (CACM) Blog Articles**

- [Blog.26] What Can the FATE Community Learn from the Successes and Failures in Privacy? Apr 13, 2023.  
<https://cacm.acm.org/blogs/blog-cacm/271991-what-can-the-fate-community-learn-from-the-successes-and-failures-in-privacy/fulltext>
- [Blog.25] Using GitHub CoPilot is Like Having a Superpower. Feb 17, 2023.  
<https://cacm.acm.org/blogs/blog-cacm/270043-using-github-copilot-is-like-having-a-superpower/fulltext>
- [Blog.24] Superhero Secret Identities Aren't Possible with Today's Computing Technologies. Jan 24, 2022.  
<https://cacm.acm.org/blogs/blog-cacm/257976-superhero-secret-identities-arent-possible-with-todays-computing-technologies>  
Also see extensive social media discussion at  
[https://old.reddit.com/r/comicbooks/comments/sboa9w/superhero\\_secret\\_identities\\_arent\\_possible\\_with/](https://old.reddit.com/r/comicbooks/comments/sboa9w/superhero_secret_identities_arent_possible_with/)
- [Blog.23] What Should be Done About Facebook? Nov 12, 2021.  
<https://cacm.acm.org/blogs/blog-cacm/256766-what-should-be-done-about-facebook>
- [Blog.22] Is the Trolley Problem -Useful for Studying Autonomous Vehicles? May 2, 2019.  
<https://cacm.acm.org/blogs/blog-cacm/236606-is-the-trolley-problem-useful-for-studying-autonomous-vehicles/fulltext>
- [Blog.21] Why is Privacy So Hard? March 13, 2019.  
<https://cacm.acm.org/blogs/blog-cacm/235401-why-is-privacy-so-hard/fulltext>
- [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-engelbart-s-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]  
<http://cacm.acm.org/blogs/blog-cacm/123889-password-policies-are-getting-out-of-control/fulltext>
- [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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## Association Memberships

Member, ACM Association for Computing Machinery

Member, ACM SIGCHI Special Interest Group Computer Human Interaction

Member, IEEE

Universal Life Church (1 wedding officiated so far!)

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## Activities and Other Skills

Georgia Tech Academic College Bowl Team

- ACF National Champions (team, 1996)

- University of Memphis Blues Bowl, 1<sup>st</sup> place (team, 1996)

- Georgia Tech MLK Tournament, 1<sup>st</sup> place (team, 1996)

- Tennessee Invitational, 1<sup>st</sup> place (team, 1996)

- North Carolina Invitational, 1<sup>st</sup> place (team, 1996)

- ACF Regionals Southeast, 1<sup>st</sup> place (team, 1996)

- University of Virginia Wahoo War, 1<sup>st</sup> place (team, 1997)

- ACF Regionals Southeast, 1<sup>st</sup> place (team, 1997)

Berkeley Quiz Bowl Team

- NAQT Nationals, 2nd place (1999)

- Tournament Director, multiple quiz-bowl tournaments held at Berkeley

- Treasurer (Fall 1998 - Spring 1999)

Mandarin Chinese (intermediate, speaking only)

Chess, South Carolina State Chess Championship (Team, 1993)

Plants versus Zombies 2 (intermediate), Clash Royale (intermediate), Fortnite (novice, 3 solo wins!)

Parent (novice)

Named funniest dad (from a child in my daughter's kindergarten class)