

Kami Vaniea

RESEARCH INTERESTS

I am interested in Human Computer Interaction (HCI) as it applies to Security applications. Specifically, I am interested in further understanding how people control access to their resources through the design, creation and implementation of policy for both individual devices and larger environments.

EDUCATION

PhD Student in Computer Science

Carnegie Mellon University

Bachelor of Science in Computer Science (2005)

Oregon State University

EXPERIENCE

Graduate Researcher

Sept. 2005-present

Carnegie Mellon University, Pittsburgh, PA

- Researching the usability of discretionary access control systems.
- Looking at policy creation design and implementation as well as how usability of access-control systems impacts security.

IBM Research Intern

May. 2007 - Sep. 2007

IBM Research TJ Watson, Hawthorn, NY

- Conducted research on the design of an interface to support the composition of machine readable privacy policies using natural language.
- Implemented a new authoring interface and ran a user study which evaluated its effect on policy authors' efficiency and accuracy.

Center for Cyber Defenders Intern

June 2004 – Aug. 2004

Sandia National Laboratories, Livermore, CA

- Assisted in ongoing research activities involving network traffic analysis tools and security analysis of systems used by Sandia.
- Did a full security analysis, red team, on several video conferencing systems with team of fellow students. Analysis included detecting and exploiting security holes in ftp, telnet, and web servers.
- Assisted in the creation of a network sniffer/analysis tool designed to monitor network traffic passively and build profiles on each node.

Undergraduate Research Assistant

April 2002 – June 2005

Oregon State University, Corvallis, OR

- Assisted with research on recommender systems including running studies to test new algorithms and creating web apps.
- Integrated a search engine and a recommender system to test how users make use of recommendations while searching online.
- Assisted in running several user studies on the effectiveness of new algorithms.

Undergraduate Research Assistant

June 2003 – Aug. 2003

Columbia University, New York, NY

- Taught classes using Lego Mindstorms at a Harlem community center, an upper west side 6th grade classroom and a pre-college program. Presented and taught the final curriculum at a workshop for teachers as part of Technology Integration Partnerships.
- Personal duties included: designing curriculum, collaborating with teachers and other students, teaching classes/workshops and building a web page.

AWARDS

- Google's Anita Borg Scholarship for Women in Computer Science, 2004
- NSF Graduate Fellowship Honorable Mention
- National Science Foundation Research Experience for Undergraduates
- Burgess Tektronix Award for outstanding Engineering senior of the year, Oregon State University, 2004
- Waldo – Cummings Outstanding student 2003, 2004 Honorable Mention Recipient

PUBLICATIONS

- Lujo Bauer, Lorrie Faith Cranor, Michael K. Reiter, and Kami Vaniea, "*Lessons learned from the deployment of a smartphone-based access-control system,*" In Symposium On Usable Privacy and Security (SOUPS, 2007)
- Jason Cornwell, Ian Fette, Gary Hsieh, Madhu Prabaker, Jinghai Rao, Karen Tang, Kami Vaniea, Lujo Bauer, Lorrie Cranor, Jason Hong, Bruce McLaren, Mike Reiter, Norman Sadeh, "User-Controllable Security and Privacy For Pervsive Computing", In the 8th IEEE Workshop on Mobile Computing Systems and Applications (HotMobile 2007)

EXTRACURRICULAR ACTIVITIES

Women@SCS

2005 - Present

- Women in Computer Science student organization designed to support and promote women in the field
- Outreach Roadshow – do presentations to schools, teachers and outreach events
- The Barbara Lazarus Women@IT Fellowship
- Grace Hopper Celebration of Women in Computing

Tea Time

2005 - Present

- Organize a weekly departmental tea tasting social event designed to promote communication between graduate students and a healthy understanding of tea.

Association for Computing Machinery (ACM)

2001-2005

- Oregon State University Student Chapter
- President (2003 – 2005), Secretary (2002 – 2003)
- Designed and ran the first Electrical Engineering and Computer Science departmental graduation ceremony in over 30 years
- Initiated, taught and participated in weekly student taught workshop sessions
- Hosted and spoke at several dinners and receptions to assist graduating seniors in connecting with corporate representatives.

Women and Minorities in Engineering

2003 - 2005

- Action Counsel representative for Computer Science (Oregon State University)
- Webmaster, Mentor and Tutor

Oregon Software Engineering Contest

2001 - 2003

- Three month long, state wide, team based, programming contest
 - Placed second with an instant messaging conversational agent program
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