Tamara Denning

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RESEARCH STATEMENT

My research interests are in ubiquitous computing, human-computer interaction, and computer security and privacy.

EDUCATION

PhD Student (3rd year)
Computer Science and Engineering, University of Washington, Seattle, WA

B.S. (Cum Laude)
Computer Science, University of California, San Diego, CA

EXPERIENCE

[09/07 - Present] Graduate Student
University of Washington, Seattle, WA

[07/05 – 06/07] Ubiquitous Presenter Team, Undergraduate Researcher
University of California, San Diego, CA
A primary developer and researcher of Ubiquitous Presenter, an educational technology project that combines Tablet PC ink with web functionality and enables novel communication modalities in the classroom. Languages used in the project include Java, PHP, JavaScript, and C#. Tasks include developing and managing research projects, publishing results, project management, programming, documentation, and user support.

[01/05 – 08/05] Tutor for Computer Organization & Systems Programming Class
University of California, San Diego, CA
Attended weekly lab hours to assist students with class material and graded programming projects.

[06/04 – 09/04] Intern
Naval Research Laboratory, Monterey, CA

Work included the design of static and dynamic web pages, PERL scripts to automate and perform upkeep on several server processes, and the creation of plots from data files using IDL (Interactive Data Language).

PUBLICATIONS

Tamara Denning, Cynthia Matuszek, Karl Koscher, Joshua R. Smith, and Tadayoshi Kohno. "A Spotlight on Security and Privacy Risks with Future Household Robots: Attacks and Lessons." In *Proceedings of the 11th International Conference on Ubiquitous Computing (UbiComp 09)*, September 30th-October 3rd, 2009.

Tamara Denning, Yoky Matsuoka, and Tadayoshi Kohno. "Neurosecurity: security and privacy for neural devices." *Neurosurgical Focus*, 27(1), July 2009.

Tamara Denning, Adrienne Andrew, Rohit Chaudhri, Carl Hartung, Jonathan Lester, Gaetano Borriello, and Glen Duncan. "BALANCE: Towards a Usable Pervasive Wellness Application with Accurate Activity Inference." In *Proceedings of The Tenth International Workshop on Mobile Computing Systems and Applications (HotMobile '09)*, February 23-24, 2009.

Tamara Denning, Kevin Fu, and Tadayoshi Kohno. "Absence Makes the Heart Grow Fonder: New Directions for Implantable Medical Device Security." In *Proceedings of 3rd USENIX Workshop on Hot Topics in Security (HotSec '08)*, July 29, 2008.

David Lindquist, **Tamara Denning**, Michael Kelly, Roshni Malani, William G. Griswold, Beth Simon. "Exploring the Potential of Mobile Phones for Active Learning in the Classroom." In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2007.

Tamara Denning, Michael Kelly, David Lindquist, Roshni Malani, William G. Griswold, Beth Simon. "Lightweight Preliminary Peer Review: Does in-class peer review make sense?" In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, March 2007.

Tamara Denning, William Griswold, Beth Simon, Michelle Wilkerson. "Multimodal Communication in the Classroom: What does it mean for us?**"** In *Proceedings of the Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*, February 2006.

POSTERS

Tamara Denning, Cynthia Matuszek, Karl Koscher, Joshua R. Smith, and Tadayoshi Kohno. "A Spotlight on Security and Privacy Risks with Future Household Robots:

Attacks and Lessons." (USENIX Security 2009, Intel Labs Seattle Open House 2009, UW Affiliates 2009).

Tamara Denning, Tadayoshi Kohno, Kevin Fu. "Absence Makes the Heart Grow Fonder: New Directions for Implantable Device Security." (USENIX Security 2008).

"Enabling Student Access and Control in a Digital Lecturing Environment." (Grace Hopper 2006, Educause 2006.)

AWARDS

Microsoft Research Women's Scholarship (2009/2010)
Marilyn Fries Endowed Regental Fellowship (2007/2008)
Achievement Rewards for College Scientists (ARCS) Fellowship (2007-2009)
CRA Outstanding Undergraduate Awards Honorable Mention 2007
CRA-W Distributed Mentorship Program Awardee 2006
Office of Naval Research Internship Awardee 2004