

EDUCATION

- present UC Berkeley: pursuing a Ph. D. in Computer Science (human-computer interaction)
1998 U of Waterloo: B. A. Sc. (Hons.) in Computer Engineering (top student in graduating class)

EMPLOYMENT

- present UC Berkeley: graduate research in security and usability with Marti Hearst and David Wagner
2004 HP Labs: design and development of a virus-safe environment based on the Principle of Least Authority
2003 IBM Research: design and development of improvements to a next-generation e-mail client
2001 Opera Software: design and implementation of user interface enhancements to the Opera Web browser
2000 UC Berkeley: teaching assistant for CS 61A
1998-2000 Industrial Light and Magic: development and support of interactive graphics software used daily in feature film production by a community of expert artists
1997 Xerox PARC: development of a Web-based document services platform
1996 Alias|Wavefront Tokyo: development of 3-D design, animation, and rendering tools (shipped in Alias 8)
1995 U of Waterloo Math Faculty Computing Facility: network and robotics lab hardware maintenance
1995 Canadian Space Agency: development of the Agency's first Web services and design of a haptic device control protocol
1994 Alias Research: development of new polygonal modelling and 2-D animation tools (shipped in Alias 6)

ACHIEVEMENTS

- 2002-2004 Recipient, IBM Ph. D. Fellowship
2000 Category Winner, Software Carpentry Open-Source Design Competition
1998 Gold Medal for Academic Achievement, Professional Engineers Ontario
1998 Governor General's Silver Medal
1996 Runner-up, Outstanding Undergraduate Award, Computing Research Association
1994 Member of World Champion Team, ACM International Programming Contest
1993 Gold Medal, International Mathematical Olympiad

PUBLICATIONS

In Print

- 2006 Marc Stiegler, Alan H. Karp, Ka-Ping Yee, Tyler Close, Mark S. Miller. Polaris: Virus-Safe Computing for Windows XP. In *Communications of the ACM*, September 2006.
2006 Ka-Ping Yee, David Wagner, Marti Hearst, Steven Bellovin. Prerendered User Interfaces for High-Assurance Electronic Voting. In *Proceedings of the USENIX/ACCURATE Electronic Voting Technology Workshop, 2006*.
2006 Ka-Ping Yee, Kragen Sitaker. Passpet: Convenient Password Management and Phishing Protection. In *Proceedings of the Symposium on Usable Privacy and Security, 2006*.
2006 Ka-Ping Yee. Firefighters and Engineers. In *ACM Interactions*, May-June 2006.

- 2005 Ka-Ping Yee. Guidelines and Strategies for Secure Interaction Design (Chapter 13). In *Security and Usability: Designing Secure Systems that People Can Use*, edited by Lorrie Faith Cranor, Simson Garfinkel. O'Reilly, 2005.
 - 2004 Marc Stiegler, Alan H. Karp, Ka-Ping Yee, Mark S. Miller. Polaris: Virus Safe Computing for Windows XP. HP Labs Technical Report HPL-2004-221.
 - 2004 Ka-Ping Yee. Aligning Usability and Security. In *IEEE Security & Privacy*, September 2004.
 - 2004 M. Markstein, R. Zinzen, P. Markstein, Ka-Ping Yee, A. Erives, A. Stathopoulos, M. Levine. A regulatory code for neurogenic gene expression in the *Drosophila* embryo. In *Development* 131, 2387-2394, 2004.
 - 2004 Ka-Ping Yee. Two-Handed Interaction on a Tablet Display. In *Extended Abstracts of the ACM Conference on Computer-Human Interaction*, 2004.
 - 2003 L. Jean Camp and Ka-Ping Yee. Human implications of technology. In *Practical Handbook of Internet Computing*, edited by M. P. Singh, CRC Press, 2003.
 - 2003 Ka-Ping Yee, Kirsten Swearingen, Kevin Li, Marti Hearst. Faceted Metadata for Image Search and Browsing. In *Proceedings of the ACM Conference on Computer-Human Interaction*, 2003.
 - 2003 Ka-Ping Yee. Peephole Displays: Pen Interaction on Spatially Aware Handheld Computers. In *Proceedings of the ACM Conference on Computer-Human Interaction*, 2003.
 - 2003 Mark McKelvin, Ragnhild Nestande, Leticia Valdez, Ka-Ping Yee, Maribeth Back, Steve Harrison. SeismoSpin: a Physical Instrument for Digital Data. In *Extended Abstracts of the ACM Conference on Computer-Human Interaction*, 2003.
 - 2003 Mark Miller, Ka-Ping Yee, Jonathan Shapiro. Capability Myths Demolished. Technical Report SRL2003-02, Systems Research Laboratory, Johns Hopkins University.
 - 2002 Ka-Ping Yee. CritLink: Advanced Hyperlinks Enable Public Annotation on the Web. Demonstration abstract. ACM Conference on Computer-Supported Co-operative Work, 2002.
 - 2002 Ka-Ping Yee. Zest: Discussion Mapping for Mailing Lists. Demonstration abstract. ACM Conference on Computer-Supported Co-operative Work, 2002.
 - 2002 Ka-Ping Yee. User Interaction Design for Secure Systems (ACM). In *Proceedings of the 4th International Conference on Information and Communications Security (Lecture Notes in Computer Science 2513)*, 278-290, Springer-Verlag, 2002. An extended version of this paper is also available as UC Berkeley CS Technical Report CSD-02-1184.
 - 2002 J. English, M. Hearst, R. Sinha, K. Swearingen, and Ka-Ping Yee. Finding the Flow in Web Site Search. In *Communications of the ACM*, September 2002.
 - 2002 J. English, M. Hearst, R. Sinha, K. Swearingen, and Ka-Ping Yee. Hierarchical Faceted Metadata in Site Search Interfaces. In *Proceedings of the ACM Conference on Computer-Human Interaction*, 2002.
 - 2001 Ka-Ping Yee. Operating an Emergency Information Service. In *Communications of the ACM*, Dec 2001.
 - 2001 Ka-Ping Yee, D. Fisher, R. Dhamija, and M. Hearst. Animated Exploration of Dynamic Graphs with Radial Layout. In *Proceedings of the IEEE Symposium on Information Visualization*, 2001.
- Online**
- 2005 Ka-Ping Yee, Marti Hearst. A Visualization to Facilitate Productive Discussions. Position paper accepted to Beyond Threaded Conversation Workshop at the ACM Conference on Computer-Human Interaction, 2005.
 - 2003 Ka-Ping Yee. Secure Interaction Design and the Principle of Least Authority. Position paper accepted to HCI and Security Workshop at the ACM Conference on Computer-Human Interaction, 2003.
 - 2002 Jennifer English, Marti Hearst, Rashmi Sinha, Kirsten Swearingen, Ka-Ping Yee. Flexible Search and Navigation Using Faceted Metadata.
 - 2000 Ka-Ping Yee. Roundup: An Issue-Tracking System for Knowledge Workers. Category Winner, Software Carpentry Open Source Design Competition.

PROJECTS

I was the primary designer, or implementor of the following:

- 2005 PFI, a data model and format for locating people displaced by natural disasters (the prevailing interchange format for Hurricane Katrina survivor data)

- 2003 the Peephole Display, an interactive, spatially aware handheld display
- 2003 **SeismoSpin**, an interactive visualization of earthquake data in time and space
- 2001 Fly Enhancer, a public search engine for clusters of binding sites in cis-regulatory DNA in the fly genome
- 2001 national survivor registry for victims of September 11 terrorist attacks
- 2001 Flamenco, a series of user interfaces for browsing large collections using faceted metadata
- 2000 pydoc, the documentation generator and interactive help system for Python
- 1999 pyxi, the graphical browser released with the Xanadu hypertext system
- 1998 Roundup, the issue-tracking system now in daily production use at ILM and other sites
- 1997 crit.org, a zero-install, browser-independent, public, fine-grained annotation system for the Web (won Engelbart Hypertext Achievement Scholarship)
- 1996 MINSE, a simple, extensible notation and zero-install, browser-independent display system for mathematics in Web documents
- 1995 Shodouka, a transformation engine that displays Japanese pages on browsers and systems without font support (won ACM Webbie Prize)

ACTIVITIES

- 2007 FC Usable Security Workshop: Program Committee Member
- 2007 Symposium on Usable Privacy and Security: Program Committee Member
- 2002 10th Python Conference: Program Committee Member
- 2001 9th Python Conference: Program Committee Member
- 2000 Alternative Computer Expo: Special Guest Speaker
- 2000 Shad Valley Summit: Keynote Speaker
- 1999 Shad Valley: Program Assistant (Acadia campus)
- 1992 Shad Valley: Participant (Waterloo campus)
- Senior Associate, Foresight Institute
- Member, Electronic Frontier Foundation
- Member, Free Software Foundation
- Member, Association for Computing Machinery
- Member, Python Software Foundation
- Member, Alcor Life Extension Foundation

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