

Gary Hsieh

Research Interests

I am broadly interested in Human-Computer Interaction (HCI). Specifically, I am interested in further our understanding on how people allocate their attention for different types of information and to use that understanding as a foundation for improving, deploying, and evaluating various media for information communication between humans and humans and computers.

Education

Fall 2004 – Current **Carnegie Mellon University**, Pittsburgh, PA
Ph.D. Student, Human-Computer Interaction
Advisors: Scott Hudson, Robert Kraut
Human-Computer Interaction Institute, School of Computer Science

Fall 1999 – Spring 2003 **University of California**, Berkeley, CA
B.S., Electrical Engineering and Computer Science
Minor, Business Administrations

Publications

Refereed Papers

- UBICOMP 2007 Hsieh, G., Karen, P.T., Low, W.Y., Hong, J.I.
Field Deployment of IMBuddy: A Study of Privacy Control and Feedback Mechanism for Contextual IM. In *Proceedings of Ubiquitous Computing (UbiComp 2007)*. pp. 91-108. Springer.
- AOM 2007 Dabbish, L., Hsieh, G., Kraut, R., Hudson, S.E..
Prioritization in Computer-Mediated Communication: Influences of Urgency, Notification, and Identity. *Academy of Management Best Paper Proceedings*, Philadelphia, PA.
- CHI 2006 Hsieh, G., Wood, K., Sellen, A.
“Peripheral Display of Digital Handwritten Notes.” In *Proceedings of Human Factors in Computing Systems (CHI 2006)*, pp. 285-288. New York: ACM Press.
- CHI 2006 Churchill, E., Nelson, L., Hsieh, G.
Café Life in the Digital Age: Augmenting Information Flow in a café-work-entertainment Space. In *Proceedings of Human Factors in Computing Systems (CHI 2005) Extended Abstracts*, pp.123-128. New York: ACM Press.

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- CHI 2005 Keyani, P., Hsieh, G., Mutlu, B., Easterday, M., Forlizzi, J.
"DanceAlong: Supporting Positive Social Exchange and Exercise for the Elderly Through Dance." In *Proceedings of Human Factors in Computing Systems (CHI 2005) Extended Abstracts*. New York: ACM Press.
- CHI 2003 Mankoff, J., Dey, A.K., Hsieh, G., Kientz, J., Ames, M., Lederer, S.
"Heuristic evaluation of ambient displays." In *Proceedings of Human Factors in Computing Systems (CHI 2003)*, pp.169-176. New York: ACM Press.
- UBICOMP 2002 Mankoff, J., Hsieh, G., Hung, H.C., Lee S., Nitao, E.
"Using Low-Cost Sensing to Support Nutritional Awareness." In *Proceedings of Ubiquitous Computing (UbiComp 2002)*, pp. 371-378. Springer.

Workshop Paper

- HotMobile 2007 Cornwell J., Fette I., Hsieh G., Prabaker M., Rao J., Tang K., Vaniea K., Bauer L., Cranor L., Hong J., McLaren B., Reiter M., Sadeh N.
"User-Controllable Security and Privacy For Pervasive Computing", Accepted to the 8th IEEE Workshop on Mobile Computing Systems and Applications (HotMobile 2007).

Tech Report

- CSD 2003 Hsieh, G., Mankoff, J.
"A Comparison of Two Peripheral Displays for Monitoring Email: Measuring Usability, Awareness, and Distraction." CSD-03-1286

Patent

- 08.25.2005 Wood, K., Hsieh, G., Meyers, B.
Selection and display of user-created documents. Pending.

Research Grants

- 2007 Key Technical Challenges Grant (Yahoo! Research)
\$5,000

Professional Experiences

- Fall 2004 – Current **Carnegie Mellon University**, Pittsburgh, PA
Graduate Student Researcher
Conducted lab studies to understanding the effects of using market mechanism for instant messaging. Developing technologies to facilitate communication initialization.
- Summer 2007 – Current **IBM Research**, Hawthorne, NY
Research Intern
Explore the use of message tagging to facilitate near-synchronous communication in IM. Provides an initial design and proof-point for designers planning to incorporate similar concepts into IM communication.

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- Summer 2005 **Microsoft Research**, Cambridge, United Kingdom
Research Intern
Designed and implemented a peripheral display supporting tablet pc note takers. Conducted a short-term usage study to understand the different types of benefits from using the display.
- Nov 2003 – Mar 2004 **Fuji Xerox Palo Alto Laboratory**, Palo Alto, CA
Consultant
Analyzed the demographics and behaviors of Canvas Gallery customers. Designed and deployed survey to understand the needs of the customers. Identified potential applications for the eyeCanvas Display.
- May 2002 – Nov 2003 **UC Berkeley and Intel Berkeley**, Berkeley, CA
Research Assistant
Adapted heuristic evaluation for ambient displays (aesthetic/non-disruptive peripheral displays). Designed and evaluated two peripheral displays supporting email awareness. Conducted lab and field studies measuring the intricacies between awareness and distraction.
- May 2002 – Nov 2003 **UC Berkeley**, Berkeley, CA
Research Assistant
Investigated advertisements to see how persuasion is done from a marketing standpoint. Designed and implemented a GUI for shopping list recommendations. Examined different ways to present personal nutrition information.
- May 2002 – Nov 2003 **Embark / The Princeton Review**, San Francisco, CA
Database and Web Development Intern
Evaluated data downloads using Microsoft Access and other download tools; Designed web applications for various colleges/universities using HomeSite and other software.
- Aug 1998 – May 1999 **The Clorox Co.**, Pleasanton, CA
Research Intern
Conducted various studies to analyze the cost-benefit of the amount of brightener used in Clorox Bleach. Helped reduce the cost of manufacturing Clorox Bleach.

Teaching Experiences

- Spring 2007 **Carnegie Mellon University**, Pittsburgh, PA
Teaching Assistant
Demoed on the use of Visual Studio and Visual Basic.net. Led a class discussion on well/poorly designed interfaces. Assisted with the grading of the homework. Advised students on their assignments in office hours.
- Fall 2002 **UC Berkeley**, Berkeley, CA
Teaching Assistant
Lectured on the usage of heuristic evaluation in current research. Assisted with the grading of the homework and the semester long project. Advised students on their projects in office hours. Acted as the webmaster for the course website.

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Professional Services

ISR GSRS 2007 Program Committee

CHI 2007 Reviewer
UIST 2006

UBICOMP 2003 Student Volunteer
CHI 2003

ACM SIGCHI Member