

ALLISON WOODRUFF

INTEL RESEARCH
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RESEARCH INTERESTS

Technology for Domestic Environments
Computer-Mediated Communication
Ubiquitous Computing
Museum Information Systems
Database and Information Visualization

EDUCATION

Ph.D., Computer Science, University of California, Berkeley Thesis: Data Lineage and Constant Information Density in Database Visualization. Advisor: Michael Stonebraker.	1998
M.S., Computer Science, University of California, Davis	1993
M.A., Linguistics, University of California, Davis	1989
B.A., English, California State University, Chico	1987

PROFESSIONAL PROGRAMS

Attingham Summer School (Museum Education)	1999, 2000
Management of Technology Certificate, University of California, Berkeley	1998
Decorative Arts Certificate, Christie's Education	1998

EXPERIENCE

Research Scientist, Intel Research Berkeley	2004-present
Research Scientist, Palo Alto Research Center (PARC)	1998-2004
Research Analyst, California Department of Water Resources	1992-1994

CONFERENCE AND JOURNAL PUBLICATIONS

- A. Woodruff and P.M. Aoki. "Push-to-Talk Social Talk." *Computer Supported Cooperative Work*, 2005, to appear.
- A. Woodruff and P.M. Aoki. "Conversation Analysis and the User Experience." *Digital Creativity*, 2005, to appear.
- C. Yu, P.M. Aoki, and A. Woodruff. "Detecting User Engagement in Everyday Conversations." *Proc. 8th Int'l Conf. on Spoken Language Processing (ICSLP '04) (Vol. 2)*, Jeju Island, Republic of Korea, Oct. 2004, 1329-1332.
- A. Woodruff and P.M. Aoki. "How Push-to-Talk Makes Talk Less Pushy." *Proc. ACM SIGGROUP Conf. on Supporting Group Work (GROUP 2003)*, Sanibel Island, FL, Nov. 2003, 170-179.
- P.M. Aoki, M. Romaine, M.H. Szymanski, J.D. Thornton, D. Wilson, and A. Woodruff. "The Mad Hatter's Cocktail Party: A Social Mobile Audio Space Supporting Multiple Conversations." *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2003)*, Fort Lauderdale, FL, Apr. 2003, 425-432.
- R.E. Grinter, P.M. Aoki, A. Hurst, M.H. Szymanski, J.D. Thornton, and A. Woodruff. "Revisiting the Visit: Understanding How Technology Can Shape the Museum Visit." *Proc. ACM Conf. on Computer Supported Cooperative Work (CSCW 2002)*, New Orleans, LA, Nov. 2002, 146-155.
- A. Woodruff, M.H. Szymanski, R.E. Grinter, and P.M. Aoki. "Practical Strategies for Integrating a Conversation Analyst in an Iterative Design Process." *Proc. 4th ACM Conf. on Designing Interactive Systems (DIS 2002)*, London, UK, June 2002, 19-28.
- P.M. Aoki, R.E. Grinter, A. Hurst, M.H. Szymanski, J.D. Thornton, and A. Woodruff. "Sotto Voce: Exploring the Interplay of Conversation and Mobile Audio Spaces." *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2002)*, Minneapolis, MN, Apr. 2002, 431-438.
- B. Suh, A. Woodruff, R. Rosenholtz, and A. Glass. "Popout Prism: Adding Perceptual Principles to Overview+Detail Document Interfaces." *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2002)*, Minneapolis, MN, Apr. 2002, 251-258.
- R.E. Grinter and A. Woodruff. "Ears and Hair: What Headsets Will People Wear?" *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2002)*, Minneapolis, MN, Apr. 2002, 680-681.
- A. Woodruff, P.M. Aoki, R.E. Grinter, A. Hurst, M.H. Szymanski, and J.D. Thornton. "Eavesdropping on Electronic Guidebooks: Observing Learning Resources in Shared Listening Environments." *Proc. 6th International Conf. on Museums and the Web (MW 2002)*, Boston, MA, Apr. 2002, 21-30.
- A. Woodruff, R. Rosenholtz, J. Morrison, A. Faulring, and P. Pirolli. "A Comparison of the Use of Text Summaries, Plain Thumbnails, and Enhanced Thumbnails for Web Search Tasks." *Journal of the American Society for Information Science and Technology (JASIST)* 53(2):172-185, 2002.
- A. Woodruff, C. Olston, A. Aiken, M. Chu, V. Ercegovic, M. Lin, M. Spalding, and M. Stonebraker. "DataSplash: A Direct Manipulation Environment for Programming Semantic Zoom Visualizations of Tabular Data." *Journal of Visual Languages and Computing (JVLC)* 12(5):551-571, Oct. 2001.
- A. Woodruff, M.H. Szymanski, P.M. Aoki, and A. Hurst. "The Conversational Role of Electronic Guidebooks." *Proc. 3rd International Conf. on Ubiquitous Computing (UbiComp 2001)*, Atlanta, GA, Sep. 2001, 187-208.
- A. Woodruff, P.M. Aoki, A. Hurst, and M.H. Szymanski. "Electronic Guidebooks and Visitor Attention." *Proc. 6th International Cultural Heritage Informatics Meeting (ICHIM 2001)*, Milan, Italy, Sep. 2001, 437-454.

- A. Woodruff, A. Faulring, R. Rosenholtz, J. Morrison, and P. Pirolli. "Using Thumbnails to Search the Web." *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2001)*, Seattle, WA, Apr. 2001, 198-205.
- A. Woodruff, P.M. Aoki, A. Hurst, and M.H. Szymanski. "The Guidebook, the Friend, and the Room: Visitor Experience in a Historic House." *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2001)*, Seattle, WA, Apr. 2001, 273-274.
- P.M. Aoki, A. Hurst, and A. Woodruff. "Tap Tips: Lightweight Discovery of Touchscreen Targets." *Extended Abstracts, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2001)*, Seattle, WA, Apr. 2001, 237-238.
- C. Olston and A. Woodruff. "Getting Portals to Behave." *Proc. IEEE Symposium on Information Visualization (InfoVis 2000)*, Salt Lake City, UT, Oct. 2000, 15-25.
- P. M. Aoki and A. Woodruff. "Improving Electronic Guidebook Interfaces Using a Task-Oriented Design Approach." *Proc. 3rd ACM Conf. on Designing Interactive Systems (DIS 2000)*, New York, NY, Aug. 2000, 319-325.
- M. Baldonado, A. Woodruff, and A. Kuchinsky. "Guidelines for Using Multiple Views in Information Visualization." *Proc. 5th International Working Conf. on Advanced Visual Interfaces (AVI 2000)*, Palermo, Italy, May 2000, 110-119.
- A. Woodruff, R. Gossweiler, J. Pitkow, E.H. Chi, and S.K. Card. "Enhancing a Digital Book with a Reading Recommender." *Proc. ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2000)*, The Hague, The Netherlands, Apr. 2000, 153-160.
- A. Woodruff, J. Landay, and M. Stonebraker. "Constant Information Density Visualizations of Non-Uniform Distributions of Data." *Proc. 11th Annual ACM Symposium on User Interface and Software Technology (UIST '98)*, San Francisco, CA, Nov. 1998, 19-28.
- A. Woodruff, J. Landay, and M. Stonebraker. "Constant Information Density in Zoomable Interfaces." *Proc. 4th International Working Conf. on Advanced Visual Interfaces (AVI '98)*, L'Aquila, Italy, May 1998, 57-65.
- A. Woodruff, J. Landay, and M. Stonebraker. "Goal-Directed Zoom." *Summary, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI '98)*, Los Angeles, CA, Apr. 1998, 305-306.
- A. Woodruff and M. Stonebraker. "Supporting Fine-Grained Data Lineage in a Database Visualization Environment." *Proc. 13th International Conf. on Data Engineering (ICDE '97)*, Birmingham, UK, Apr. 1997, 91-102.
- A. Woodruff, P.M. Aoki, E. Brewer, P. Gauthier, and L.A. Rowe. "An Investigation of Documents on the World Wide Web." *Computer Networks and ISDN Systems* 28(7-11):963-980, May 1996.
- A. Aiken, J. Chen, M. Stonebraker, and A. Woodruff. "Tioga-2: A Direct Manipulation Database Visualization Environment." *Proc. 12th International Conf. on Data Engineering (ICDE '96)*, New Orleans, LA, Feb. 1996, 208-217.
- A. Aiken, J. Chen, M. Lin, M. Spalding, M. Stonebraker, and A. Woodruff. "The Tioga-2 Database Visualization Environment." *Proc. IEEE Visualization '95 Workshop on Database Issues for Data Visualization*, Atlanta, GA, Oct. 1995, 181-207.
- A. Woodruff and M. Stonebraker. "Buffering of Intermediate Results in Dataflow Diagrams." *Proc. 11th IEEE Symposium on Visual Languages (VL '95)*, Darmstadt, Germany, Sept. 1995, 187-194.
- A. Woodruff, A. Su, M. Stonebraker, C. Paxson, J. Chen, A. Aiken, P. Wisnovsky, and C. Taylor. "Navigation and Coordination Primitives for Multidimensional Browsers." *Proc. 3rd Conf. on Visual Database Systems (VDB '95)*, Lausanne, Switzerland, Mar. 1995, 360-371.
- A. Woodruff and C. Plaunt. "GIPSy: Automated Geographic Indexing of Text Documents." *Journal of the American Society for Information Science (JASIS)* 45(9):645-655, Oct. 1994.

A. Woodruff, P. Wisnovsky, C. Taylor, A. Su, M. Stonebraker, C. Paxson, J. Chen, and A. Aiken. "Zooming and Tunneling in Tioga: Supporting Navigation in Multidimensional Space." *Proc. 10th IEEE Symposium on Visual Languages (VL '94)*, St. Louis, MO, Oct. 1994, 191-193.

M. Farrens, A. Park, and A. Woodruff. "CCHIME: A Cache Coherent Hybrid Interconnected Memory Extension." *Proc. 6th International Parallel Processing Symposium*, Beverly Hills, CA, Mar. 1992, 573-577.

M. Farrens, B. Wetmore, and A. Woodruff. "Alleviation of Tree Saturation in Multistage Interconnection Networks." *Proc. Supercomputing '91*, Albuquerque, NM, Nov. 1991, 400-409.

PROFESSIONAL ACTIVITIES

Program Committee, 14th International World Wide Web Conference (WWW 2005), Browsers and User Interfaces.

Program Committee, 17th Annual ACM Symposium on User Interface Software and Technology (UIST 2004).

Demonstration Program Committee, 6th International Conf. on Ubiquitous Computing (UbiComp 2004).

Program Committee, 2nd International Conf. on Coordinated and Multiple Views in Exploratory Visualization (CMV 2004).

Demonstrations Co-Chair, 5th International Conf. on Ubiquitous Computing (UbiComp 2003).

Program Committee, 1st International Conf. on Coordinated and Multiple Views in Exploratory Visualization (CMV 2003).

Program Committee, ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI 2003).

Program Committee, 15th Annual ACM Symposium on User Interface Software and Technology (UIST 2002).

Program Committee, 6th International Working Conf. on Advanced Visual Interfaces (AVI 2002).

NSF Information Technology Research Review Panel, Apr. 2000.

Reviewer for journals and conferences including ACM Conf. on Computer Supported Cooperative Work (CSCW), ACM SIGCHI Conf. on Human Factors in Computing Systems (CHI), ACM SIGGROUP Conf. on Supporting Group Work (GROUP), ACM Symposium on User Interface Software and Technology (UIST), *ACM Transactions on Computer-Human Interaction (TOCHI)*, *ACM Transactions on Information Systems (TOIS)*, Hawaii International Conf. on Systems Sciences (HICSS), International Conf. on Pervasive Computing, International Conf. on Ubiquitous Computing (UbiComp), *International Journal of Human-Computer Studies (IJHCS)*, *Information Visualization (IVS)*, *Journal of Computer Supported Cooperative Work (JCSCW)*, *Journal of Data Mining and Knowledge Discovery*, and *Journal of Personal and Ubiquitous Computing*.