

# Meredith Ringel Morris

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## **RESEARCH INTERESTS**

My area of research is Human Computer Interaction (HCI), focusing on the design, development, and evaluation of collaborative, social, and accessible technologies.

**Areas of expertise:** gesture interfaces, collaborative technologies, social media, social search, Q&A systems, information retrieval, crowdsourcing, accessible and assistive technologies, digital inclusion, universal design

**Skills:** software development, user-centered design, quantitative and qualitative study design, data science

## **EDUCATION**

2006 Ph.D. in Computer Science, Stanford University

2003 M.S. in Computer Science, Stanford University

2001 Sc.B. in Computer Science, Brown University (Magna Cum Laude)

## **PROFESSIONAL EXPERIENCE**

2006 - present **Microsoft Research**  
*Research Manager, Ability Team (2018 – present), Principal Researcher (2016 – present), Senior Researcher (2013 – 2016), Researcher (2006 – 2013)*

2001 – 2006 **Stanford University Department of Computer Science**  
*Ph.D. Candidate (advised by Terry Winograd)*  
Thesis topic: Supporting Effective Interaction with Tabletop Groupware

Summer 2003 **Mitsubishi Electric Research Laboratories**  
*Research Intern (advised by Chia Shen and Kathy Ryall)*  
Developed coordination mechanisms for multi-user interactive tables

Summer 2002 **Microsoft Research**  
*Research Intern (advised by Eric Horvitz and Susan Dumais)*  
Developed and evaluated alternative representations of search results

Summer 2001 **AT&T Shannon Laboratory**  
*Research Intern (advised by Julia Hirschberg)*  
Developed automatic mechanisms for prioritizing voicemail messages

*Summer 2000* **Stanford University Department of Computer Science**  
*Research Assistant (advised by Terry Winograd)*  
Developed hand-gesture input system for a large, wall-mounted display

*Summer 1998* **Lockheed Martin Management and Data Systems**  
& 1999 *Intern*  
Developed Perl scripts to customize commercial engineering software

## **TEACHING EXPERIENCE**

- 2008 - present* Affiliate Faculty Member, University of Washington (Seattle, WA)
- School of Computer Science & Engineering (formerly the Dept. of CS&E)
    - Affiliate Assistant Professor, 2008 – 2012
    - Affiliate Associate Professor, 2012 – 2017
    - Affiliate Professor, 2017 - present
  - The Information School
    - Affiliate Associate Professor, 2012 – 2017
    - Affiliate Professor, 2017 – present
- University of Washington teaching experience:
- Co-instructor for the undergraduate course INFO463 (“Input & Interaction”) (with Jacob O. Wobbrock) (*Spring 2012*)
  - Co-organizer for the graduate-level joint UW/MSR seminar series CS590W (“Computers & Disabilities”) (with Richard Ladner) (*Fall 2010*)
  - Co-instructor for the graduate seminar CS590W (“Accessibility Research Seminar”) (with Richard Ladner) (*Winter 2017*)
  - Guest lecturer for various CSE and iSchool courses, including “Advanced Topics in HCI,” “Input & Interaction,” “DUB Seminar,” and “iSchool Research Conversations” (*2008 – present*)
- April 2015* Instructor for the ACM CHI conference course “Design for Searching & Finding” (with Daniel Russell, Ed Chi, Marti Hearst, & Jaime Teevan)
- Summer 2005* Instructor for “Introduction to Databases”  
Stanford University
- Fall 2002 & 2003* Teaching Assistant for “Introduction to Human-Computer Interaction”  
Stanford University
- Winter 2002* Teaching Assistant for “Human-Computer Interaction Design Studio”  
Stanford University
- Spring 2000* Head Teaching Assistant for “Introduction to Scientific Computing”  
Brown University
- Summer 1999* Teaching Assistant for “Laboratory Course in Parallel Supercomputing”  
Pennsylvania Governor’s School for the Sciences, Carnegie Mellon Univ.

- Fall 1999 Teaching Assistant for “Introduction to Object-Oriented Programming”  
Brown University
- Spring 1998 & Teaching Assistant for “Introduction to Scientific Computing”  
1999 Brown University

## **PUBLICATIONS**

- books* Morris, M.R. and Teevan, J. Collaborative Web Search: Who, What, Where, When, and Why? *Morgan & Claypool*, 2010.
- editorships* Golovchinsky, G., Morris, M.R., and Pickens, J. *Information Processing and Management*, special issue on Collaborative Information Seeking (2010).
- journal articles* Hargittai, E., Piper, A.M., and Morris, M.R. From Internet Access to Internet Skills: Digital Inequality among Older Adults. *Universal Access in the Information Society*, Springer, 2018 (to appear).
- Brewer, R., Lindley, S., and Morris, M.R. How to Remember What to Remember: Understanding Complex Memory Needs. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technology (IMWUT 2017)*.
- Rector, K., Salmon, K., Thornton, D., Joshi, N., and Morris, M.R. Eyes-Free Art: Exploring Proxemic Audio Interfaces for Blind and Low Vision Art Engagement. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technology (IMWUT 2017)*.
- Teevan, J., Morris, M.R., and Azenkot, S. Supporting Interpersonal Interaction during Collaborative Mobile Search. *IEEE Computer, Special Issue on Collaborative Information Seeking*, March 2014.
- Isenberg, P., Paul, S., Fisher, D., Morris, M.R., Inkpen, K., and Czerwinski, M. Co-located Collaborative Visual Analytics Around a Tabletop Display. *Transactions on Visualization and Computer Graphics*, May 2012.
- Paul, S. and Morris, M.R. Sensemaking in Collaborative Web Search. *Human-Computer Interaction*, 26(1), January 2011, 72 - 122.
- Morris, M.R., Fisher, D., and Wigdor, D. Search on Surfaces: Exploring the Potential of Interactive Tabletops for Collaborative Search Tasks. *Information Processing and Management*, 2010.
- Morris, M.R., Piper, A.M., Cassanego, A., Huang, A., Paepcke, A., and Winograd, T. Mediating Group Dynamics through Tabletop Interface Design. *IEEE Computer Graphics and Applications*, Sept/Oct 2006, 65-73.

Ryall, K., Morris, M.R., Everitt, K., Esenther, A., Forlines, C., Shen, C., Shipman, S., and Vernier, F. Identity-Differentiating Widgets for Multi-User Interactive Surfaces. *IEEE Computer Graphics and Applications*, Sept/Oct 2006, 56-64.

Shen, C., Ryall, K., Forlines, C., Esenther, A., Everitt, K., Hancock, M., Morris, M.R., Vernier, F., Wigdor, D., and Wu, M. Interfaces, Interaction Techniques and User Experience on Direct-Touch Horizontal Surfaces. *IEEE Computer Graphics and Applications*, Sept/Oct 2006, 36-46.

Borchers, J., Ringel, M., Tyler, J., and Fox, A. Stanford Interactive Workspaces: A Framework for Physical and Graphical User Interface Prototyping. *IEEE Wireless Communications*, 9(6), December 2002, 64-69.

*full-length  
conference  
papers* Morris, M.R., Johnson, J., Bennett, C., and Cutrell, E. Rich Representations of Visual Content for Screen Reader Users. *Proceedings of CHI 2018*.

Morris, M.R., Fourney, A., Ali, A., and Vonessen, L. Understanding the Needs of Searchers with Dyslexia. *Proceedings of CHI 2018*.

Guinness, D., Cutrell, E., and Morris, M.R. Caption Crawler: Enabling Reusable Alternative Text Descriptions using Reverse Image Search. *Proceedings of CHI 2018*. **Best Paper Honorable Mention**.

Zhao, Y., Bennett, C., Benko, H., Cutrell, E., Holz, C., Morris, M.R., and Sinclair, M. Enabling People with Visual Impairments to Navigate Virtual Reality with a Haptic and Auditory Cane Simulation. *Proceedings of CHI 2018*.

Bennett, C., E., J., Mott, M., Cutrell, E., and Morris, M.R. How Teens with Visual Impairments Take, Edit, and Share Photos on Social Media. *Proceedings of CHI 2018*.

Mott, M., E., J., Bennett, C., Cutrell, E., and Morris, M.R. Understanding the Accessibility of Smartphone Photography for People with Motor Impairments. *Proceedings of CHI 2018*.

Fiannaca, A., Paradiso, A., Campbell, J., and Morris, M.R. Voicesetting: Voice Authoring UIs for Improved Expressivity in Augmentative Communication. *Proceedings of CHI 2018*.

Salisbury, E., Kamar, E., and Morris, M.R. Toward Scalable Social Alt Text: Conversational Crowdsourcing as a Tool for Refining Vision-to-Language Technology for the Blind. *Proceedings of HCOMP 2017*. **Best Paper Award**.

Morris, M.R., Bigham, J.P., Brewer, R., Bragg, J., Kulkarni, A., Li, J., and Savage, S. Subcontracting Microwork. *Proceedings of CHI 2017*.

MacLeod, H., Bennett, C., Morris, M.R., and Cutrell, E. Understanding Blind People's Experiences with Computer-Generated Captions of Social Media Images. *Proceedings of CHI 2017*.

Mott, M., Williams, S., Wobbrock, J.O., and Morris, M.R. Improving Dwell-Based Gaze Typing with Dynamic, Cascading Dwell Times. *Proceedings of CHI 2017*.

Zhang, X., Kulkarni, H., and Morris, M.R. Smartphone-Based Gaze Gesture Communication for People with Motor Disabilities. *Proceedings of CHI 2017*.

Sobel, K., Fiannaca, A., Campbell, J., Kulkarni, H., Paradiso, A., Cutrell, E., and Morris, M.R. Exploring the Design Space of AAC Awareness Displays. *Proceedings of CHI 2017*. **Best Paper Honorable Mention.**

Feit, A., Williams, S., Toledo, A., Paradiso, A., Kulkarni, H., Kane, S., and Morris, M.R. Toward Everyday Gaze Input: Accuracy and Precision of Eye Tracking and Implications for Design. *Proceedings of CHI 2017*. **Best Paper Honorable Mention.**

Rong, X., Fourney, A., Brewer, R., Morris, M.R., and Bennett, P. Managing Uncertainty in Time Expressions for Virtual Assistants. *Proceedings of CHI 2017*. **Best Paper Honorable Mention.**

Fourney, A., Morris, M.R., and White, R. Web Search as a Linguistic Tool. *Proceedings of WWW 2017*.

Kane, S., Morris, M.R., Paradiso, A., and Campbell, J. "At times avuncular and cantankerous, with the reflexes of a mongoose": Understanding Self-Expression through Augmentative and Alternative Communication Devices. *Proceedings of CSCW 2017*.

Fiannaca, A., Paradiso, A., Shah, M., and Morris, M.R. AACrobat: Using Mobile Devices to Lower Communication Barriers and Provide Autonomy with Gaze-Based AAC. *Proceedings of CSCW 2017*. **Best Paper Honorable Mention.**

Sobel, K., Kovacs, G., McQuillen, G., Cross, A., Chandrasekaran, N., Riche, N.H., Cutrell, E., and Morris, M.R. EduFeed: A Social Feed to Engage Preliterate Children in Educational Activities. *Proceedings of CSCW 2017*.

Morris, M.R., Perkins, A., Yao, C., Bahram, S., Bigham, J.P., and Kane, S. "With most of it being pictures now, I rarely use it": Understanding Twitter's Evolving Accessibility to Blind Users. *Proceedings of CHI 2016*.

Brewer, R., Morris, M.R., and Piper, A.M. "Why would anybody do this?": Older Adults' Understanding of and Experiences with Crowdtwork. *Proceedings of CHI 2016*.

Morris, M.R., Begel, A., and Wiedermann, B. Understanding the Challenges Faced by Neurodiverse Software Engineering Employees: Towards a More Inclusive and Productive Technical Workforce. *Proceedings of ASSETS 2015*. **Best Paper Award.**

Brady, E., Morris, M.R., and Bigham, J.P. Gauging Receptiveness to Social Microvolunteering. *Proceedings of CHI 2015*. **Best Paper Nominee.**

Kim, J., Glassman, E., Monroy-Hernández, A., and Morris, M.R. RIMES: Embedding Interactive Multimedia Exercises in Lecture Videos. *Proceedings of CHI 2015*.

Glassman, E., Kim, J., Monroy-Hernández, A., and Morris, M.R. Mudslide: A Spatially Anchored Census of Student Confusion for Online Lecture Videos. *Proceedings of CHI 2015*. **Best Paper Nominee.**

Zyskowski, K., Morris, M.R., Bigham, J.P., Gray, M.L., and Kane, S. Accessible Crowdsourcing? Understanding the Value in and Challenge of Microtask Employment for People with Disabilities. *Proceedings of CSCW 2015*.

Williams, M., Roseway, A., O'Dowd, C., Czerwinski, M., and Morris, M.R. SWARM: An Actuated Wearable for Mediating Affect. *Proceedings of TEI 2015*.

Ammari, T., Morris, M.R., and Schoenebeck, S.Y. Accessing Social Support and Overcoming Judgment on Social Media among Parents of Children with Special Needs. *Proceedings of ICWSM 2014*.

Rzeszotarski, J. and Morris, M.R. Estimating the Social Costs of Friendsourcing. *Proceedings of CHI 2014*. **Best Paper Award.**

De Choudhury, M., Morris, M.R., and White, R. Seeking and Sharing Health Information Online: Comparing Search Engines and Social Media. *Proceedings of CHI 2014*.

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Morris, M.R., Inkpen, K., and Venolia, G. Remote Shopping Advice: Enhancing In-Store Shopping with Social Technologies. *Proceedings of CSCW 2014*.

Oeldorf-Hirsch, A., Hecht, B., Morris, M.R., Teevan, J., and Gergle, D. To Search or to Ask: The Routing of Information Needs between Traditional Search Engines and Social Networks. *Proceedings of CSCW 2014*.

Kane, S., Morris, M.R., and Wobbrock, J.O. Touchplates: Low-Cost Tactile Overlays for Visually Impaired Touchscreen Users. *Proceedings of ASSETS 2013*.

Jeong, J-W., Morris, M.R., Teevan, J., and Liebling, D. A Crowd-Powered Socially Embedded Search Engine. *Proceedings of ICWSM 2013*.

Kairam, S., Morris, M.R., Teevan, J., Liebling, D., and Dumais, S.T. Leveraging Social Media to Support Search over Trending Events. *Proceedings of ICWSM 2013*. **Best Paper Honorable Mention**.

Fourney, A. and Morris, M.R. Enhancing Technical Q&A Forums with CiteHistory. *Proceedings of ICWSM 2013*.

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Brady, E., Zhong, Y., Morris, M.R., and Bigham, J. Investigating the Appropriateness of Social Network Question Asking as a Resource for Blind Users. *Proceedings of CSCW 2013*.

Yang, J., Counts, S., Morris, M.R., and Hoff, A. Microblog Credibility Perceptions: Comparing the United States and China. *Proceedings of CSCW 2013*.

Morris, M.R. Web on the Wall: Insights from a Multimodal Interaction Elicitation Study. *Proceedings of Interactive Tabletops & Surfaces 2012*.

Hecht, B., Teevan, J., Morris, M.R., and Liebling, D. SearchBuddies: Bringing Search Engines into the Conversation. *Proceedings of ICWSM 2012*.

Morris, M.R., Counts, S., Hoff, A., Roseway, A., and Schwarz, J. Tweeting is Believing? Understanding Microblog Credibility Perceptions. *Proceedings of CSCW 2012*. **Best Paper Honorable Mention**.

Bragdon, A., DeLine, R., Hinckley, K., and Morris, M.R. Code Space: Combining Touch, Devices, and Skeletal Tracking to Support Developer Meetings. *Proceedings of ITS 2011*.

Kane, S., Morris, M.R., Perkins, A., Wobbrock, J., Wigdor, D., and Ladner, R. Access Overlays: Improving Non-Visual Access to Large Touch Screens for Blind Users. *Proceedings of UIST 2011*.

Yang, J., Morris, M.R., Teevan, J., Adamic, L., and Ackerman, M. Culture Matters: A Survey Study of Social Q&A Behavior. *Proceedings of ICWSM 2011*.

Schwarz, J. and Morris, M.R. Augmenting Web Pages and Search Results to Support Credibility Assessment. *Proceedings of CHI 2011*.

Moraveji, N., Morris, M.R., Morris, D., Czerwinski, M., and Riche, N. ClassSearch: Facilitating the Development of Web Search Skills through Social Learning. *Proceedings of CHI 2011*. **Best Paper Nominee**.

Teevan, J., Ramage, D., and Morris, M.R. #TwitterSearch: A Comparison of Microblog Search and Web Search. *Proceedings of WSDM 2011*.

Isenberg, P., Fisher, D., Morris, M.R., Inkpen, K., and Czerwinski, M. An Exploratory Study of Co-located Collaborative Visual Analytics around a Tabletop Display. *Proceedings of IEEE VAST 2010*, 179-186. **Best Paper Honorable Mention**.

Morris, M.R., Wobbrock, J., and Wilson, A. Understanding Users' Preferences for Surface Gestures. *Proceedings of Graphics Interface 2010*, 261-268.

Morris, M.R., Teevan, J., and Panovich, K. What Do People Ask Their Social Networks, and Why? A Survey Study of Status Message Q&A Behavior. *Proceedings of CHI 2010*, 1739-1748.

Morris, M.R., Lombardo, J., and Wigdor, D. WeSearch: Supporting Collaborative Search and Sensemaking on a Tabletop Display. *Proceedings of CSCW 2010*, 401-410.

Amershi, S., Morris, M.R., Moraveji, N., Balakrishnan, R., and Toyoma, K. Multiple Mouse Text Entry for Single-Display Groupware. *Proceedings of CSCW 2010*, 169-178. **Best Paper Nominee**.

Freeman, D., Benko, H., Morris, M.R., and Wigdor, D. ShadowGuides: Visualizations for In-Situ Learning of Multi-Touch and Whole-Hand Gestures. *Proceedings of Tabletop 2009*, 183-190.

Paul, S. and Morris, M.R. CoSense: Enhancing Sensemaking for Collaborative Web Search. *Proceedings of CHI 2009*, 1771-1780. **Best Paper Nominee**.

Wobbrock, J., Morris, M.R., and Wilson, A. User-Defined Gestures for Surface Computing. *Proceedings of CHI 2009*, 1083-1092. **Best Paper Nominee**.

Fiebrink, R., Morris, D., and Morris, M.R. Dynamic Mapping of Physical Controls for Tabletop Groupware. *Proceedings of CHI 2009*, 471-480.

Buscher, G., Cutrell, E., and Morris, M.R. What Do You See When You're Surfing? Using Eye Tracking to Predict Salient Regions of Web Pages. *Proceedings of CHI 2009*, 21-30.



Teevan, J., Morris, M.R., and Bush, S. Discovering and Using Groups to Improve Personalized Search. *Proceedings of WSDM 2009*, 15-24

Morris, M.R., Brush, A.J.B., and Meyers, B. A Field Study of Knowledge Workers' Use of Interactive Horizontal Displays. *Proceedings of IEEE Tabletops and Interactive Surfaces 2008*, 113-120.

Amershi, S. and Morris, M.R. CoSearch: A System for Co-located Collaborative Web Search. *Proceedings of CHI 2008*, 1647-1656.

Morris, D., Morris, M.R., and Venolia, G. SearchBar: A Search-Centric Web History for Task Resumption and Information Re-finding. *Proceedings of CHI 2008*, 1207-1216.

Morris, M.R. and Horvitz, E. SearchTogether: An Interface for Collaborative Web Search. *Proceedings of UIST 2007*, 3-12.

Morris, M.R., Brush, A.J.B., and Meyers, B. Reading Revisited: Evaluating the Usability of Digital Display Surfaces for Active Reading Tasks. *Proceedings of IEEE Tabletop 2007*, 79-86. **Lasting Impact Award.**

Piper, A.M., O'Brien, E., Morris, M.R., and Winograd, T. SIDES: A Cooperative Tabletop Computer Game for Social Skills Development. *Proceedings of CSCW 2006*, 1-10.

Morris, M.R., Huang, A., Paepcke, A., and Winograd, T. Cooperative Gestures: Multi-User Gestural Interactions for Co-located Groupware. *Proceedings of CHI 2006*, 1201-1210.

Morris, M.R., Paepcke, A., Winograd, T., and Stamberger, J. TeamTag: Exploring Centralized versus Replicated Controls for Co-located Tabletop Groupware. *Proceedings of CHI 2006*, 1273-1282.

Morris, M.R., Paepcke, A., and Winograd, T. TeamSearch: Comparing Techniques for Co-Present Collaborative Search of Digital Media. *The First IEEE International Workshop on Horizontal Interactive Human-Computer Systems*, January 2006, 97-104.

Ryall, K., Morris, M.R., Everitt, K., Forlines, C., and Shen, C. Experiences with and Observations of Direct-Touch Tabletops. *The First IEEE International Workshop on Horizontal Interactive Human-Computer Systems*, January 2006, 89-96.

Morris, M.R., Morris, D., and Winograd, T. Individual Audio Channels with Single Display Groupware: Effects on Communication and Task Strategy. *Proceedings of CSCW 2004*, 242-251.

Ryall, K., Forlines, C., Shen, C., and Morris, M.R. Exploring the Effects of Group Size and Table Size on Interactions with Tabletop Shared-Display Groupware. *Proceedings of CSCW 2004*, 284-293.

Shen, C., Vernier, F., Forlines, C., and Ringel, M. DiamondSpin: An Extensible Toolkit for Around-the-Table Interaction. *Proceedings of CHI 2004*, 167-174.

Ringel, M., Cutrell, E., Dumais, S., and Horvitz, E. Milestones in Time: The Value of Landmarks in Retrieving Information from Personal Stores. *Proceedings of Interact 2003*, 184-191.

Ballagas, R., Ringel, M., Stone, M., and Borchers, J. iStuff: A Physical User Interface Toolkit for Ubiquitous Computing Environments. *Proceedings of CHI 2003*, 537-544.

*short conference papers* Fourney, A., Morris, M.R., Ali, A., and Vonessen, L. Assessing the Readability of Web Search Results for Searchers with Dyslexia. *Proceedings of SIGIR 2018*.

Kane, S. and Morris, M.R. Let's Talk About X: Combining Image Recognition and Eye Gaze to Support Conversation for People with ALS. *Proceedings of DIS 2017*.

Rzeszotarski, J., Spiro, E., Matias, J.N., Monroy-Hernández, A., and Morris, M.R. Is Anyone Out There? Unpacking Q&A Hashtags on Twitter. *Proceedings of CHI 2014*.

Liebling, D., and Morris, M.R. Kinected Browser: Depth Camera Interaction for the Web. *Proceedings of Interactive Tabletops & Surfaces 2012*.

Teevan, J., Morris, M.R., and Panovich, K. Factors Affecting Response Quantity, Quality, and Speed for Questions Asked via Social Network Status Messages. *Proceedings of ICWSM 2011*.

Morris, M.R., Teevan, J., and Panovich, K. A Comparison of Information Seeking Using Search Engines and Social Networks. *Proceedings of ICWSM 2010*, 291-294.

Hartmann, B., Morris, M.R., Benko, H., and Wilson, A. Pictionary: Supporting Collaborative Design Work by Integrating Physical and Digital Artifacts. *Proceedings of CSCW 2010*.

Hartmann, B., Morris, M.R., Benko, H., and Wilson, A. Augmenting Interactive Tables with Mice & Keyboards. *Proceedings of UIST 2009*, 149-152.

Morris, M.R., Teevan, J., and Bush, S. Enhancing Collaborative Web Search with Personalization: Groupization, Smart Splitting, and Group Hit-Highlighting. *Proceedings of CSCW 2008*, 481-484.

Everitt, K., Morris, M.R., Brush, A.J.B., and Wilson, A. DocuDesk: An Interactive Surface for Creating and Rehydrating Many-to-Many Linkages among Paper and Digital Documents. *Proceedings of IEEE Tabletops and Interactive Surfaces 2008*, 27-30.

Morris, M.R. A Survey of Collaborative Web Search Practices. *Proceedings of CHI 2008*, 1657-1660.

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Ringel, M. When One Isn't Enough: An Analysis of Virtual Desktop Usage Strategies and Their Implications for Design. *Proceedings of CHI 2003 Extended Abstracts*, 762-763.

Ringel, M., Berg, H., Jin, Y., and Winograd, T. Barehands: Implement-Free Interaction with a Wall-Mounted Display. *Proceedings of CHI 2001 Extended Abstracts*, 367-368.

*workshop papers* Teevan, J., Morris, M.R., and Saponas, T.S. Mobile Support for Face-to-Face Social Interaction. *2014 Human-Computer Interaction Consortium Workshop (HCIC)*.

Morris, M.R. and Teevan, J. Exploring the Complementary Roles of Social Networks and Search Engines. *2012 Human-Computer Interaction Consortium Workshop (HCIC)*.

Morris, M.R. and Morris, D. Understanding the Potential for Collaborative Search Technologies in Clinical Settings. *CIKM 2011 Workshop on Collaborative Information Retrieval*.

Moraveji, N., Morris, M.R., and Morris, D. Supporting the Social Transfer of Web Search Expertise. *CHI 2010 Workshop on the Next Generation of HCI and Education*.

Paul, S. and Morris, M.R. Understanding and Supporting Sensemaking in Collaborative Web Search. *CHI 2009 Sensemaking Workshop*.

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Venolia, G., Morris, M.R., and Morris, D. Exploring and Investigating: Supporting High-Level Search Activities. *CHI 2007 Workshop on Exploratory Search and HCI*.

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*peer-reviewed posters* de Greef, L., Morris, M.R., and Inkpen, K. TeleTourist: Immersive Telepresence Tourism for Mobility-Restricted Participants. *CSCW 2016 Extended Abstracts*.

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*magazine articles* Morris, M.R., Danielescu, A., Drucker, S., Fisher, D., Lee, B., schraefel, m.c., and Wobbrock, J.O. Reducing Legacy Bias in Gesture Elicitation Studies. *ACM Interactions*, May-June 2014.

Morris, M.R. Tabletop Computers. *IEEE Spectrum*, online edition, December 2008, <http://www.spectrum.ieee.org/dec08/6999>.

Morris, M.R. Social Borders: Mediating Group Dynamics Through Interface Design. *Ambidextrous Magazine: The Stanford University Journal of Design*. Winter 2006, 36-37.

*doctoral dissertation* Morris, M.R. Supporting Effective Interaction With Tabletop Groupware. *Stanford University Technical Report*, April 2006.

*technical reports* Teevan, J., Morris, M.R., and Panovich, K. "Does Anyone Know How to Get Good Answers?" How Social Network Questions Shape Replies. *Microsoft Research Technical Report*, June 2013.

Benko, H., Morris, M.R., Brush, A.J., and Wilson, A. Insights on Interactive Tabletops: A Survey of Researchers and Developers. *Microsoft Research Technical Report*, March 2009.

## **PATENTS**

2003 *Method and System for Usage Analyzer that Determines User Accessed Sources, Indexes Data Subsets and Associated Metadata, Processing Implicit Queries Based on Potential Interest to Users*  
Dumais, S., Horvitz, E., Cutrell, E., Cadiz, J.J., Jancke, G., Sarin, R., Robbins, D., Gupta, A., Robertson, G., Ringel, M., and Goecks, J.  
U.S. Patent Number 7162473

2007 *Search-Centric Hierarchical Browser History*  
Morris, D., Morris, M., and Venolia, G.  
U.S. Patent Number 8090740

2008 *Using Related Users' Data to Enhance Web Search*  
Morris, M., Teevan, J., Mickens, J., and Amershi, S.  
U.S. Patent Number 8244721

2008 *Gestures, Interactions, and Common Ground in a Surface Computing Environment*  
Sands, I., Butler, A., Benko, H., Kunz, B., Morris, M., Wilson, A., Jones, D., LeProwse, S., Horvitz, E., Russ, K., Izadi, S., Hodges, S., and Hinckley, K.  
U.S. Patent Number 9134798

2009 *System and Interface for Co-Located Collaborative Web Search*  
Morris, M. and Amershi, S.  
U.S. Patent Number 8266139

2009 *Mapping of Physical Controls for Surface Computing*  
Fiebrink, R., Morris, D., and Morris, M.  
U.S. Patent Number 8264455

2009 *Linking Digital and Paper Documents*  
Brush, A.J., Everitt, K., Morris, M., and Wilson, A.

U.S. Patent Number 8286068

2009 *Using Physical Objects in Conjunction with an Interactive Surface*  
Hartmann, B., Wilson, A., Benko, H., and Morris, M.  
U.S. Patent Number 8427424

2010 *Interactive Search Results Page*  
Morris, M., Counts, S., Roseway, A., and Schwarz, J.  
U.S. Patent Number 9292602

2013 *Automated Bibliography Generation*  
Fourney, A. and Morris, M.  
U.S. Patent Number 9462034

2013 *Providing Crowdsourced Answers to Information Needs Presented by Search Engine and Social Networking Application Users*  
Teevan, J., Dumais, S., Bernstein, M.S., Horvitz, E., Morris, M., Jeong, J., and Liebling, D.  
U.S. Patent Number 9424354

2013 *Collaborative Mobile Interaction*  
Azenkot, S., Morris, M., Teevan, J., and Liebling, D.  
U.S. Patent Number 9537908

2015 *Immersive Telepresence*  
Inkpen, K., Morris, M., Venolia, G., Tang, J., and De Greef, L.  
U.S. Patent Number 9591260

2015 *Proxies for Speech Generating Devices*  
Fiannaca, A., Morris, M., Campbell, J., Beavers, J., Kulkarni, H., Paradiso, A., and Shah, M.  
U.S. Patent Number 9679497

2017 *Proxemic Interfaces for Exploring Imagery*  
Joshi, M., Morris, M., and Rector, K.  
U.S. Patent Number 9792835

2018 *Designating Automated Agents as Friends in a Social Network Service*  
Morris, M., Teevan, J., Hecht, B., Liebling, D.  
U.S. Patent Number 9929982

### **INVITED TALKS**

- May 2018 *Combining Human and Machine Intelligence to Describe Images to People with Visual Impairments*. Psych. Dept. Seminar, University of Washington
- April 2018 *Computing for All: Research in Accessibility, Learning, and Emerging/Developing Countries*. CHIME workshop (panelist).

- Oct. 2017 *Combining Human and Machine Intelligence to Describe Images to People with Visual Impairments*, HCOMP 2017 GroupSight Workshop keynote
- Oct. 2017 *Combining Human and Machine Intelligence to Describe Images to People with Visual Impairments*, Howard University
- Oct. 2017 *Combining Human and Machine Intelligence to Describe Images to People with Visual Impairments*, University of Colorado Boulder
- May 2017 *Enhancing the Throughput and Expressivity of Augmentative and Alternative Communication Technologies for People with ALS*, MIT
- April 2017 *Enhancing the Throughput and Expressivity of Augmentative and Alternative Communication Technologies for People with ALS*, NYU Abu Dhabi
- March 2017 *Reframing AAC Technologies as CSCW Systems*, University of Michigan
- March 2017 MISC (Interactive & Social Computing) Speaker Series
- Nov. 2016 *Enhancing the Throughput and Expressivity of Augmentative and Alternative Communication Technologies for People with ALS*, U.C. Berkeley EECS Department Colloquium
- Nov. 2016 *Enhancing the Throughput and Expressivity of Augmentative and Alternative Communication Technologies for People with ALS*, Cornell Tech
- Nov. 2016 *Enhancing the Throughput and Expressivity of Augmentative and Alternative Communication Technologies for People with ALS*, Columbia University
- July 2016 *Supporting Neurodiverse Software Engineers*, Seattle Children's Hospital
- June 2016 *Supporting Neurodiverse Software Engineers*, AccessComputing Capacity Building Institute
- March 2016 *Supporting Neurodiverse Software Engineers*, SAP Autism at Work Summit
- March 2016 *Collaborative Web Search: Towards Next-Generation Information-Seeking Experiences*, University of Toronto (Sanders Series Lecture)
- Feb. 2016 *Collaborative Web Search: Towards Next-Generation Information-Seeking Experiences*, Harvard University
- Feb. 2015 *Collaborative Web Search: Towards Next-Generation Information-Seeking Experiences*, Harvard University
- Nov. 2014 *Credibility Perceptions of Content Contributors and Consumers in Social Media*, ASIS&T 2014 (panelist)
- Sept. 2014 *Collaborative Web Search: Toward Next-Generation Information-Seeking Experiences*, CDVE 2014 (Conference on Computer Design, Visualization, and Engineering) (keynote)
- June 2014 *Friendsourcing vs. Crowdsourcing*, General Electric Global Research
- April 2014 *Friendsourcing vs. Crowdsourcing*, Brown University
- April 2014 *Socially Embedded Search Engines*, CWIC Southern California (keynote)
- March 2014 *Friendsourcing vs. Crowdsourcing*, University of Illinois Urbana-Champaign
- January 2014 *Socially Embedded Search Engines*, Northwestern University, TSB Distinguished Colloquium Speaker Series
- Sept. 2013 *Socially Embedded Search Engines*, Carnegie Mellon University
- August 2013 *Microblog Credibility Perceptions*, Twitter
- June 2013 *Socially Embedded Search Engines*, Facebook
- April 2013 *Microblog Credibility Perceptions*, Stanford University
- Nov. 2012 *Socially Embedded Search Engines*, Brown University
- Oct. 2012 *Publishing Your Research*, Grace Hopper Celebration of Women in Computing
- April 2012 *Publishing Your Research*, CRA-W Graduate Cohort Workshop
- Jan. 2012 *What Do People Ask Their Social Networks, and Why?*, Stanford University
- Nov. 2011 *Publishing Your Research*, Grace Hopper Celebration of Women in Computing



- Nov. 2011 *What if computer science was not just about technology?*, Grace Hopper Celebration of Women in Computing (panelist)
- Oct. 2011 *When Search is Not Solitary: Perspectives on Social and Collaborative Search* CIKM 2011 (panelist)
- Feb. 2011 *iRoom Project Retrospective*, Stanford University, HCI:20 Celebration
- Oct. 2010 *What Do People Ask Their Social Networks, and Why?*, University of Pennsylvania
- Oct. 2010 *The Real Time and Social Search Landscape*, SMX East 2010 (panelist)
- Oct. 2010 *The Social Networking Revolution*, Grace Hopper Celebration of Women in Computing (panelist)
- Oct. 2010 *New Directions in HCI: Collaborative & Social Search*, Grace Hopper Celebration of Women in Computing (panelist)
- June 2010 *What Do People Ask Their Social Networks, and Why?*, Facebook
- Dec. 2008 *New Tools for Enabling Collaborative Web Search*, Brown University
- Nov. 2008 *New Tools for Enabling Collaborative Web Search*, Stanford University
- Sept. 2008 *New Tools for Enabling Collaborative Web Search*, MIT
- Sept. 2008 *Innovations in Information Technology*, EmTech Emerging Technologies Conference (panelist)
- March 2008 *Career Paths in Industrial Research & Development*, CRA-W Grad Cohort for Women (panelist)
- Feb. 2008 *New Tools for Enabling Collaborative Web Search*, University of Washington
- Feb. 2006 *Supporting Effective Interaction with Tabletop Groupware*, University of Washington
- Feb. 2006 *Supporting Effective Interaction with Tabletop Groupware*, Microsoft Research
- Feb. 2006 *Supporting Effective Interaction with Tabletop Groupware*, IBM Almaden Research Center
- Dec. 2005 *Interactive Walls and Tables*, Stanford University
- June 2005 *Designing Tabletop Interfaces*, University of Washington
- March 2005 *Designing Tabletop Interfaces*, PARC
- Feb. 2005 *Designing Tabletop Interfaces*, Accenture Technology Labs
- Jan. 2005 *Designing Tabletop Interfaces*, Stanford University
- May 2003 *Virtual Desktop Usage Strategies and Their Implications for Design*, PARC

## **RESEARCH ADVISEES & INTERNS**

- 2018 Xiaoyi Zhang (University of Washington, *thesis committee*)
- 2017 - 2018 Martez Mott (University of Washington, *thesis committee*)
- 2017 Cole Gleason (Carnegie Mellon University, *MSR intern*)
- 2017 Darren Guinness (University of Colorado Boulder, *MSR intern*)
- 2017 Abdullah Ali (University of Washington, *MSR intern*)
- 2017 & 2018 Yuhang Zhao (Cornell University, *MSR intern*)
- 2017 Cynthia Bennett (University of Washington, *MSR intern*)
- 2017 Jazette Johnson (Vanderbilt University, *MSR intern*)
- 2017 Laura Vonessen (University of Washington, *MSR intern*)
- 2017 – 2018 Danielle Bragg (University of Washington, *thesis committee*)
- 2016 Robin Brewer (Northwestern University, *MSR intern*)
- 2016 & 2017 Xiaoyi Zhang (University of Washington, *MSR intern*)

- 2016 Kiley Sobel (University of Washington, *MSR intern*)
- 2016 Elliot Salisbury (University of Southampton, *MSR intern*)
- 2016 R. Michael Winters (Georgia Tech, *MSR intern*)
- 2016 Anna Feit (Aalto University, *MSR intern*)
- 2016 - 2017 Robin Brewer (Northwestern University, *thesis committee*)
- 2015 & 2016 Alexander Fiannaca (University of Washington, *MSR intern*)
- 2015 & 2017 Martez Mott (University of Washington, *MSR intern*)
- 2015 Lilian de Greef (University of Washington, *MSR intern*)
- 2015 Kyle Rector (University of Washington, *MSR intern*)
- 2015 Galen McQuillen (Harvard University, *MSR intern*)
- 2015 Geza Kovacs (Stanford University, *MSR intern*)
- 2015 Catherine Yao (Tesla STEM High School, *MSR intern*)
- 2014 - 2015 Michele Williams (Univ. of Maryland Baltimore County, *thesis committee*)
- 2014 Juho Kim (MIT, *MSR intern*)
- 2014 Elena Glassman (MIT, *MSR intern*)
- 2014 Michele Williams (University of Maryland Baltimore County, *MSR intern*)
- 2013 - 2014 Kathryn Zyskowski (University of Washington, *MSR intern*)
- 2013 Jeffrey Rzeszotarski (CMU, *MSR intern*)
- 2013 - 2015 Hwajung Hong (Georgia Tech, *thesis committee*)
- 2013 - 2015 Erin Brady (University of Rochester, *thesis committee*)
- 2012 Shiri Azenkot (University of Washington, *MSR intern*)
- 2012 Jin-Woo Jeong (Hanyang University, *MSR intern*)
- 2012 Adam Fourney (University of Waterloo, *MSR intern*)
- 2012 - 2014 Matt Bonner (Georgia Tech, *thesis committee*)
- 2010 Brent Hecht (Northwestern University, *MSR intern*)
- 2010 Shaun Kane (University of Washington, *MSR intern*)
- 2010 Julia Schwarz (Carnegie Mellon, *MSR intern*)
- 2009 Katrina Panovich (MIT, *MSR intern*)
- 2009 Neema Moraveji (Stanford University, *MSR intern*)
- 2008 Sharoda Paul (Penn State University, *MSR intern*)
- 2008 Georg Buscher (German Research Center for AI, *MSR intern*)
- 2008 Björn Hartmann (Stanford University, *MSR intern*)
- 2007 Saleema Amershi (University of Washington, *MSR intern*)
- 2007 Katherine Everitt (University of Washington, *MSR intern*)
- 2005 - 2006 Anthony Cassanego (Stanford University, *Stanford CURIS program*)
- 2004 - 2005 Anne Marie Piper (Stanford University, *Stanford Master's thesis*)
- 2005 Chalmers Wang (Stanford University, *Stanford CURIS program*)
- 2005 Anqi Huang (Harvard University, *Stanford research intern*)

## **AWARDS AND HONORS**

- 2018 ACM CHI Best Paper Nominee
- 2017 ACM Distinguished Member for Scientific Contributions to Computing
- 2017 AAAI HCOMP Best Paper Award
- 2017 ACM CHI Best Paper Nominee (x3)
- 2017 ACM CSCW Best Paper Nominee
- 2016 Interactive Surfaces & Spaces Lasting Impact Award
- 2015 ACM ASSETS Best Paper Award

2015 ACM CHI Best Paper Nominee (x2)  
 2014 ACM CHI Best Paper Award  
 2013 National Academy of Engineering, Frontiers of Engineering  
 2013 AAAI ICWSM Best Paper Honorable Mention  
 2012-2014 Microsoft Senior Leader “Bench” program for high-potential employees  
 2012 ACM Senior Member  
 2012 ACM CSCW Best Paper Honorable Mention  
 2011 ACM CHI Best Paper Nominee  
 2011 Big Think Delphi Fellow  
 2010 IEEE VAST Best Paper Honorable Mention  
 2010 ACM CSCW Best Paper Nominee  
 2009-2011 Microsoft R&D development program for high-potential employees  
 2009 *TechFlash* 100 Notable Women in Seattle Technology  
 2009 ACM CHI Best Paper Nominee  
 2008 *MIT Technology Review* TR35  
 2007 CRA-W Profile of the Month  
 2005 Stanford CS Department Student Service Award  
 2002 Stanford CS Department Student Service Award  
 2001 National Science Foundation Fellowship  
 2001 AT&T Labs Fellowship  
 2001 Lucent Graduate Research Program for Women Fellowship (declined)  
 2001 National Physical Science Consortium Fellowship (declined)  
 2001 Susan Colver Rosenberger Prize (Brown University CS service award)  
 2001 Phi Beta Kappa honor society  
 2000 CRA Outstanding Undergraduate Award, Honorable Mention  
 2000 Microsoft National Women’s Technical Scholarship  
 1997 National Merit Scholar

## **PROFESSIONAL ACTIVITIES**

*general chair* CHI 2020, conference co-chair  
 CSCW 2016, conference co-chair

*program chair* CHI 2018, “health, accessibility, and aging” papers committee co-chair  
 ASSETS 2017, papers co-chair  
 CSCW 2014, program co-chair  
 ITS (now “Interactive Surfaces & Spaces”) 2012, program co-chair  
 CHI 2011, “interaction beyond the individual” papers committee co-chair  
 CHI 2009, technical program co-chair

*program committee member (“AC”)* ASSETS 2016  
 CHI 2006, 2009, 2012  
 CSCW 2010, 2013  
 HCOMP 2015  
 ITS (now “Interactive Surfaces & Spaces”) 2007, 2008, 2009  
 UIST 2007, 2008, 2012, 2014, 2015

*editorial board* TOCHI (ACM Transactions on Computer-Human Interaction) (2012 – present)

*steering committee member* CHI (2017 – present)  
CSCW (2012 –2015)

*other conference organizational roles* UIST 2018, doctoral symposium chair  
UIST 2017, doctoral symposium chair  
ASSETS 2017, doctoral symposium faculty panelist  
UIST 2014, doctoral symposium faculty panelist  
ASSETS 2013, local arrangements co-chair  
ASSETS 2012, doctoral symposium faculty panelist  
UIST 2010, doctoral symposium faculty panelist  
CSCW 2008, co-chair of demonstrations program  
ITS 2008, North American publicity chair  
UIST 2005, co-chair of student volunteers

*workshop organizer* University of Washington & Microsoft Research Summer Institute 2016  
Expanding Accessibility Research  
(co-organizer with R. Ladner)

Workshop on Social Media Question Asking  
Held in conjunction with CSCW 2013  
(co-organizer with M. Ackerman, L. Adamic, N. Ellison, D. Gergle, B. Hecht, C. Lampe, and J. Teevan)

University of Washington & Microsoft Research Summer Institute 2012  
Crowdsourcing Personalized Online Education  
(co-organizer with E. Horvitz, D. Weld, and Mausam)

Social Search Social  
Held in conjunction with CSCW 2012 and WSDM 2012

3<sup>rd</sup> International Workshop on Collaborative Information Retrieval  
Held in conjunction with CIKM 2011  
(co-organizer with: Golovchinsky, G., Pickens, J., and Luna, J.M.F.)

2<sup>nd</sup> International Workshop on Collaborative Information Retrieval  
Held in conjunction with CSCW 2010  
(co-organizer with: Golovchinsky, G. and Pickens, J.)

1<sup>st</sup> International Workshop on Collaborative Information Retrieval  
Held in conjunction with JCDL 2008.  
(co-organizer with: Pickens, J. and Golovchinsky, G.)

*panel organizer* The Imposter Panel, Grace Hopper Celebration of Women in Computing 2009  
(co-organizer with: Iqbal, S. and Karlson, A.)

*reviewer* CHI 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017  
 CSCW 2004, 2006, 2008, 2010, 2011, 2014, 2015, 2017  
 Graphics Interface 2004, 2005, 2011  
 ECSCW 2009  
 Eurographics Symposium on Computational Aesthetics 2007  
 Exploratory Search & HCI Workshop 2006  
 HCI Journal  
 Human-Computer Interaction and Information Retrieval Workshop 2008  
 ICWSM 2011 (*program committee member*)  
 IEEE Computer Graphics and Applications  
 Information Processing and Management  
 InfoViz 2007, 2008  
 Interact 2007, 2011  
 ISCRAM 2012  
 ITS (Tabletop) 2007, 2008, 2009, 2010, 2012, 2014  
 Pervasive 2006, 2007  
 SIGGRAPH 2006  
 TOCHI  
 Ubicomp 2005, 2008, 2017  
 UIST 2004, 2005, 2006, 2007, 2008, 2009, 2012, 2013, 2016  
 WWW 2012 (*program committee member*)

*student* SIGGRAPH 2004

*volunteer* UIST 2003  
 Interact 2003

*departmental service* Chair, Microsoft Research Dissertation Grant Program (2017 – present)  
 Stanford CS PhD Admissions Committee (2003 – 2004)  
 Stanford CS PhD Program Committee (2002 – 2003)  
 Stanford CS PhD Student Representative (2001 – 2002)  
 Stanford CS PhD Recruiting Weekend Organizer (2002 – 2006)

## **SELECTED PRESS**

*May 2018* [“The Radical Frontier of Inclusive Design”](#); *Fast Company*

*March 2018* [“Microsoft’s Mad Scientists are Making AR more Tactile”](#); *Engadget*

*March 2018* [“Crazy Microsoft is the Best Microsoft”](#); *Fast Company*

*Feb. 2018* [“Virtual Reality Walking Stick Tutors Blind People to Cross Roads”](#); *New Scientist*

*Feb. 2017* [“Microsoft App Helps People with ALS Speak Using Just Their Eyes”](#); *New Scientist*

*January 2015* [“You Can Control This Heated Scarf With Your Smartphone”](#); *Time*

*January 2015* [“Microsoft Researchers Get Wrapped Up in Smart Scarf”](#); *MIT Technology Review*

*April 2014* [“Research Shows Baby Photos Not Really Taking Over Your Facebook Newsfeed”](#); *ABC News*

- April 2014 [“Science Says: The Baby Madness on Your Facebook Feed is an Illusion”](#); *Wired*
- Feb. 2014 [“New Study Finds That Moms Aren’t as Annoying on Facebook as You Thought”](#); *Slate*
- Dec. 2012 [“Questioning the network: The year in social media research”](#); *Nieman Journalism Lab*
- March 2012 [“How to Make Your Tweets More Trustworthy”](#); *Mashable*
- March 2012 [“Think fast: Is that tweet true or false? How we use credibility cues to make decisions.”](#); *Nieman Journalism Lab*
- Feb. 2012 [“Social Search Social Builds Bridges”](#); *Microsoft Research Blog*
- Nov. 2011 [“Microsoft’s Code Space project combines Kinect, touchscreens for awesome meetings”](#); *VentureBeat*
- Nov. 2011 [“Microsoft outlines Code Space, looks to include Kinect in conference rooms, PTA meetings”](#); *Engadget*
- Feb. 2010 [“What Do People Ask Their Social Networks?”](#); *GigaOM*
- Jan. 2010 [“Touchscreen Merges the Real and Digital Worlds”](#); *New Scientist*
- Sept. 2009 [“Microsoft to Add ‘Ping’ to Bing to Share Search Results”](#); *PCWorld*
- April 2009 [“Microsoft Tries to Get a Grip on Touch Computing with Surface”](#); *Scientific American*
- April 2009 [“Mixing Real and Virtual Controls”](#); *Technology Review*
- April 2009 [“Microsoft Puts Finger on Better Gestures”](#); *CNET*
- Jan. 2009 [“Microsoft Searches for Group Advantage”](#); *Technology Review*
- Nov. 2008 [“The Online Search Party: A Way to Share the Load”](#); *The New York Times*
- Oct. 2008 [“Search Engines Show Off Their Social Side”](#); *New Scientist*
- Aug. 2008 [“2008 Young Innovator: Searching Websites Jointly”](#); *Technology Review*
- March 2008 [“Searching as a Team”](#); *Technology Review*
- March 2008 [“Microsoft Research Shows New Search Projects”](#); *Seattle Post-Intelligencer*
- March 2008 [“Microsoft Shows Off Collaborative Search Tools”](#); *InfoWorld*
- June 2008 [“Microsoft Plug-In Lets Users Try Group Search”](#); *CNET*
- June 2008 [“Microsoft Research’s SearchTogether Project Looks Promising”](#); *ars technica*