

CURRICULUM VITAE

Mimi M. Recker

Professor

Department of Instructional Technology & Learning Sciences
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PROFESSIONAL EXPERIENCE

Department of Instructional Technology, Utah State University
2008-- Department Head

University Corporation for Atmospheric Research, Boulder, CO
2007 Visiting Scholar

School of Education, University of Adelaide, Australia
2007 Visiting Scholar

Department of Instructional Technology, Utah State University
2005-- Professor

Department of Instructional Technology, Utah State University
1998--2005 Associate Professor

Victoria University of Wellington, Wellington, New Zealand
1996--1998 Senior lecturer in educational technology with tenure
Established and managed *Multimedia and Learning Technologies Centre*, a
University-wide facility dedicated to the use of new digital technologies in teaching
and research. Developed and conducted seminars and workshops for academic staff on
design and use of new digital technologies in teaching, learning, and research.

1997 Acting Director, Teaching Development Centre
Managed 6 staff in a centre dedicated to the provision of professional development in
teaching, research into higher education, and course and teaching evaluations.

1995--1996 Lecturer in educational technology

Georgia Institute of Technology, Atlanta, GA, U.S.A.
1992--1994 Research scientist, College of Computing
Research in educational technology, networked information access, and artificial
intelligence.

University of California, Berkeley, CA, U.S.A.
1988--1992 Graduate student researcher, School of Education

SRI International, Menlo Park, CA.

1983--1993 Software engineer

Software engineer on Arpanet (now Internet) computer networking project; design and implementation of network protocols, database interface libraries; design and development of relational databases and application programs.

Information Technology and education consulting.

1996-present

Trustee for 2020 Communications Trust, a charitable trust devoted to discussion and investigation of ideas, knowledge and technology in new media. Key projects include developing and managing SunSITE New Zealand, and NetDay (a community project to develop computer networking applications in primary schools).

1995-1998

Consulting for a wide variety of New Zealand Government departments and agencies on aspects of Internet and intranet information systems, and their uses and applications in the public sector (includes Ministry of Education, Treasury, Reserve Bank, Ministry of Foreign Affairs and Trade, and State Services Commission).

1990-present

Consultant for a wide variety of projects and clients in Berkeley, CA, Atlanta, GA, and Wellington, NZ, including Internet and World-Wide Web development projects, multimedia training systems, educational technology, and community-access information systems.

EDUCATION

University of California, Berkeley, CA

Ph.D., 1992. *Dissertation*: Students' Strategies for Learning Computer Programming from a Computational Environment: A Design, Evaluation, and Model.

Advisor: Dr. Peter Pirolli

University of Pennsylvania, Philadelphia, PA.

B.A., Computer Mathematics, 1983

RESEARCH INTERESTS

Research interests include design and evaluation of interactive learning environments; educational uses of new media, information, and communication technologies; human-computer interaction; models of multimedia information access; social context of dynamic information ecologies.

RESEARCH GRANTS AND CONTRACTS

Principal Investigator

- *Collaborative Research: Educational Data Mining Approaches for Digital Libraries*. M. Recker (PI). National Science Foundation, NSDL program, \$75,000, 2008-2010.
- *Where Have We Come From and Where Are We Going? Learning the Lessons and Disseminating Exemplary Practices from the Projects of the NSDL*. M. Recker (Transferred PI), Flora McMartin (Co-PI), DUE, 2007-2009, \$90,000.

- *CyberConnect: Extending a Technology-Based Professional Development Model to Support Cyber-Enabled STEM Educators*, M. Recker (PI), Andy Walker (Co-PI). National Science Foundation, DR-K12 program, \$1.1 million, 2009-2012. Declined.
- *DLConnect Supplement*. M. Recker (PI). National Science Foundation, DUE program, \$52,236, 2008-9.
- *Advancing Collaborative Learning Pedagogy with Team Learning Systems*. Gusti Ngurah Darmawan (PI). University of Adelaide Internal Grant, A\$25,000, 2007.
- *Project Tomorrow Supplement*. M. Recker (PI), Kaye Howe (CoPI, UCAR). National Science Foundation, \$130,000, 2006-2007.
- *Digital Libraries go to School*. M. Recker (PI), Kaye Howe (CoPI, UCAR). National Science Foundation, TPC program, \$361,200, 2006-2009.
- *DLConnect: Connecting underserved teachers and students with NSDL learning resources and tools*. M. Recker (PI), Jim Dorward (CoPI). National Science Foundation, DUE program, \$364,000. Proposal is a collaborative with Eastern Michigan University, 2004-2007.
- *Integrating and Extending the Instructional Architect*, M. Recker, PI, Dorward, CoPIs. National Science Foundation, NSDL program, \$306,000, 2003-2005.
- *Social activity in educational digital libraries: Community, tools, and resources for learning*. CILT seed grant program. 2002. \$15,000. Wes Shumar, PI. Chris Hoadley, Mimi Recker, K. Ann Renninger, Mark Schlager, CoPIs.
- *The Instructional Architect*, National Science Foundation, Digital Libraries Program. 2000-2003, \$400,000. PI. Co-PI: Jim Dorward.
- *The Instructional Architect*, Matching funds from Utah State University, 2000-2002, \$20,000. Mimi Recker (PI), Jim Dorward (Co-PI).
- *An educational recommender system*, Utah State University, New faculty grant, 2000-2001, \$15,000.
- *Networked learning communities: Building infrastructure and evaluating impact*, with John Greenwood and Peter Stevens, Commerce. VUW Internal Grant, 1996-1998.
- *A strategy for information technology education in teacher education*, with Prof. Philip Sallis, Otago University. Funding from Information Technology Association of New Zealand, 1996.
- *Information on Asia: A Case Study of Evaluating and Categorising Web Sites*, with Tim Beal. VUW Internal grants, 1996.
- *Promoting Effective Learning Interactions in Distributed Multimedia Educational Environments*, Principal Investigators: Ashwin Ram, M. Recker. National Science Foundation SUCCEED program, 1995-1996.
- *Towards a Cognitively-Consistent Visualization-Based Computing Environment for Design Exploration*, Principal Investigators: Ashok Goel, James Foley, T. Govindaraj and Mimi Recker. Georgia Tech's Educational Technology Institute, Cognitive Science Program, Graphics, Visualization and Usability Center and College of Computing, 1993 - 1994.
- *Integrating multiple types of courseware in exploratory educational environments*, Principal Investigator: Ashwin Ram and Mimi Recker. Co-Principal Investigators: George Li, John Stasko, Albert Badre. Supporting Investigators: Jim Foley, Mike McCracken. National Science Foundation SUCCEED, 1993 - 1994. The report from a 1994 NSF site visit rated the project as "excellent" and "visionary."

Senior Staff/Consultant

- *Champions for Progress Center*, Richard N. Roberts, PI (Mimi Recker, Consultant), Cooperative Agreement: HRSA-03-056 Leadership Development for Implementation of Systems of Care for Children and Youth with Special Health Care Needs (CICS). \$300,000, 2003-2006.
- *Applying a Business Model to a University*, Callister, R., Sullivan, K., Hult, K., and Powell, J. (M. Recker, Senior Personnel), National Science Foundation, \$3 million, 2003-2008. (Declined involvement).
- *Building Evaluation Capacity of STEM Projects*, National Science Foundation, B. Worthen, PI (Mimi Recker, Consultant on Interdisciplinary Learning Panel), 2002-2005.

PUBLICATIONS

Refereed journal articles

Cassell, L., Hosted, S., & Recker, M. (2008). Educational Digital Libraries on the Verge. *International Journal of Digital Libraries*, 9(1), pp. 1-2.

Recker, M., Walker, A., Giersch, S., Mao, X., Palmer, B., Johnson, D. Leary, H., and Robertshaw, B. (2007). A Study of Teachers' Use of Online Learning Resources to Design Classroom Activities. *New Review of Multimedia and Hypermedia*, 13:2, 117 – 134.

Recker, M. (2006). Perspectives on Teachers as Digital Library Users: Consumers, Contributors, and Designers. *D-Lib Magazine*, 12(9).

Recker, M., Dorward, J., Dawson, D., Liu, Y., Mao, X., Palmer, B., Halioris, S., & Park, J. (2005). Teaching, Creating, Sharing: A Context for Learning Objects. *Interdisciplinary Journal of Knowledge and Learning Objects*, 1, 197-216.

Recker, M., Dorward, J., & Nelson, L. (2004). Discovery and use of online learning resources: Case Study Findings. *Educational Technology & Society*, 7(2), 93-104.

Walker, A., Recker, M., Lawless, K., & Wiley, D. (2004). Collaborative information filtering: A review and an educational application. *International Journal of Artificial Intelligence and Education*. 14, 1-26.

Recker, M., Walker, A., & Lawless, K. (2003). What do you recommend? Implementation and analyses of collaborative filtering of Web resources for education. *Instructional Science*, 31(4/5), 229-316.

Recker, M., & Walker, A. (2003). Supporting 'word-of-mouth' social networks via collaborative information filtering. *Journal of Interactive Learning Research*. 14(1), 79-98.

DuHadway, L, Clyde, S., Recker, M., & Cooley, D. (2002). A concept-first approach for an introductory computer science course. *Journal of Computing Sciences in Colleges*, 18(2), 6-16.

- Gunn, C. & Recker, M. (2001). New Zealand Higher Education in the Age of the Global Virtual University. *Educational Technology Research and Development*, 49(2), 105-114.
- Recker, M. & Wiley, D. A. (2001). A non-authoritative educational metadata ontology for filtering and recommending learning objects. *Journal of Interactive Learning Environments*, 1, 1-17.
- Recker, M. (1998). The virtual university: A smartcard approach to education? *Educational Technology Review*, 10, 25-31.
- Recker, M., Govindaraj, T., & Vasandani, V. (1998). Student diagnostic strategies in a dynamic simulation environment. *Journal of Interactive Learning Research*, 9(2), 131-154.
- Shikano, T., Recker, M., & Ram, A. (1998). Cognitive media and hypermedia learning environment design: a GOMS model analysis. *International Journal of Artificial Intelligence and Education*. 9(1), 1-16.
- Beal, T. & Recker, M. (1998). Harnessing user communities for website location and evaluation. *East Asian Library Resources Group of Australia Newsletter*, no. 35, 3-20.
- Recker, M. & Greenwood, J. (1997). Networked, asynchronous student evaluations of courses and teaching: An architecture and field studies. *International Journal of Educational Telecommunications*. Vol. 3, no. 4, 327-342.
- Recker, M. (1997). Appropriate use of educational technologies: A layered approach. *Educational Technology Review*, Summer 1997, no. 7, 9-13.
- Recker, M. & Pitkow, J. (1996). Predicting document access in large, multimedia repositories. *ACM Transactions on Computer-Human Interaction*, 3(4), 352-375.
- Recker, M., Ram, A., Li, G., Shikano, T., & Stasko, J. (1995). Cognitive media for multimedia information access. *Journal of Educational Multimedia and Hypermedia*, 4(2/3), 183-210
- Recker, M. & Pirolli, P. (1995). Modelling individual differences in students' learning strategies. *Journal of the Learning Sciences*, 4, 1-38.
- Pitkow, J. & Recker M. (1995). Using the Web as a survey tool: Results from the second WWW user survey. *Journal of Computer Networks and ISDN Systems*, 7(6), 809-822.
- Pirolli, P. & Recker, M. (1994). Learning strategies and transfer in the domain of programming. *Cognition and Instruction*, 12, 235-275.
- Pitkow, J. & Recker, M. (1994). Results from the first World-Wide Web survey. Special issue of *Journal of Computer Networks and ISDN Systems*, 27(2), 243-254.

Books

- Neou, V. & Recker, M. (1997). *HTML 3.2 CD With Javascript for Windows 95*. New Jersey: Prentice Hall, 450 pages with CD-ROM.
- Neou, V. & Recker, M. (1996). *HTML 3.0 with JavaScript for the Mac and PowerMac*. New Jersey: Prentice Hall, 441 pages with CD-ROM.
- Neou, V. & Recker, M. (1995). *HTML CD: An Internet Publishing Toolkit*. New Jersey: Prentice Hall, 311 pages with CD-ROM.

Book chapters

- Robertshaw, B., Leary, H., Walker, A., Bloxham, K., & Recker, M. (in press). Reciprocal mentoring "in the wild": A retrospective, comparative case study of ICT teacher professional development. In P. Gerbic & Stacey, E. (Eds). *Effective Blended Learning Practices: Evidence-Based Perspectives in ICT- Facilitated Education* (pp. xx-xx). Hershey, PA: IGI Global.
- Mao, X. & Recker, M. (2009). Effects of a Professional Development on Teacher Integration of Online Resources. In Orey, M., McClendon, V., & Branch, R. (Eds). *Educational Media and Technology Yearbook, Volume 34* (pp. xx-xx). New York: Springer.
- Recker, M., Dorward, J., & Reinke, D. (2003). Development and evaluation of digital library services: Theory and practice. In M. Mardis (Ed). *Developing Digital Libraries for K-12 Education* (pp. 107-118). Syracuse: ERIC IT Clearinghouse.
- Recker, M. M., Walker, A., & Wiley, D. (2001). Collaboratively filtering learning resources. In D. Wiley (Ed). *Designing Instruction with Learning Objects* (pp. 243-259). Bloomington: AECT.
- Govindaraj, T., Su, Y-L., Vasandani, V., & Recker, M. (1996). Training for diagnostic problem solving in complex engineered systems: modeling, simulation, intelligent tutors, and interactive interfaces. In W.B. Rouse (Ed.), *Human/Technology Interaction in Complex Systems* (pp. 1-66), Volume 8. JAI Press.
- Linn, M.C., Clancy, M.J., Katz, M., & Recker, M. (1992). How do Lisp programmers draw on previous experience to solve novel problems? In deCorte, E., Linn, M., Mandl, H., and Verschaffel, L. (Eds), *Computer-Based Learning Environments and Problem Solving*. Berlin: Springer Verlag.

Refereed conference proceedings

- Khoo, M., Pagano, J., Washington, A., Recker, M., Palmer, B., & Donahue, R. (2008). Using Web Metrics to Analyze Digital Libraries. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 375-384), New York: ACM.
- Giersch, S. Leary, H., Palmer, B., & M., Recker. (2008). Developing a Review Process for Online Resources. In *Proceedings of the Joint Conference on Digital Libraries* (p. 457), New York: ACM.

- Ben, F., Alagumalai, S., & Recker, M. (2007). Enhancing Learning Through Computer Simulations: The Impact of Learning Objects. In *Proceedings of SimTecT* (pp. 451-454), Brisbane, Australia
- Recker, M. (2007). Teachers as Consumers, Contributors, and Designers of Online Learning Resources. In *Proceedings of ICOOL 2007* (CD-ROM), Penang, Malaysia.
- Recker, M. Giersch, S., Walker, A., Halioris, S., Xin, M. & Palmer, B. (2007). A Study of How Online Learning Resource Are Used. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 179-180), New York: ACM.
- Recker, M. & Palmer, B. (2006). Using Content Across Digital Libraries. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 241-242), New York: ACM.
- Recker, M., Dorward, J., Dawson, D., Halioris, S., Liu, Y., Mao, X., Palmer, B., & Park, J. (2005). You Can Lead a Horse to Water. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 1-7), New York: ACM.
- Recker, M. (2004). Addressing the effective use of learning objects through teacher education. In *Proceedings of Cognition and Exploratory Learning in Digital Age Conference*. (pp. 250-254), IADIS press: Lisbon, Portugal.
- Sumner, T., Khoo, M., Recker, M., & Marlino, M. (2003). Understanding educator perceptions of "quality" in digital libraries. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 269 - 279). New York: ACM.
- Dorward, J., Reinke, D., and Recker, M. (2002). An evaluation model for a digital library services tool. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 322-323). New York: ACM.
- Recker, M., Walker, A., & Wiley, D. (2000). An interface for collaborative filtering of educational resources. In *Proceedings of the 2000 International Conference on Artificial Intelligence (IC-AI'2000)*, pp. 317-323. CSREA press.
- Recker, M. & Lawless, K. (1999). A Website does not a community make. In *Proceedings of the World Conference on the Web and Internet*. Virginia: AACE, pp. 1401-1403
- Recker, M. & Gunn, C. (1999). The global virtual university: International perspectives. In *Proceedings of RUFIS '99 (Role of Universities in the Future Information Society)*. Arizona: Northern Arizona University. CD-ROM.
- Recker, M. (1999). Integrating flexible learning technologies. In *Proceedings of RUFIS '99 (Role of Universities in the Future Information Society)*. Arizona: Northern Arizona University. CD-ROM
- Beal, T. & Recker, M. (1998). Locating Asian information on the Web: The AsiaWeb Project. In *Proceedings of the International Convention of Asia Scholars*, Netherlands.

- Recker, M. (1997). Community, distributed information filtering. In *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society*. Hillsdale: Lawrence Erlbaum Associates.
- Beal, T. & Recker, M. (1997). Asianists and the Web: Avenues for exploration. In *Proceedings of the Twelfth New Zealand International Conference of the Asian Studies Society*, Massey University, Palmerston North, New Zealand, pp. 32-42.
- Beal, T. & Recker, M. (1997). The Asia Web Project. In *Proceedings of the Fifth International Conference on Japanese Information in Science, Technology, and Commerce*, U.S. Library of Congress, Washington, D.C., pp. 37-45.
- Recker, M. & Beal, T. (1997). The Web as an authentic, collaborative design tool for marketing education. In *Proceedings of CAUSE in Australasia'97*, CAUSE, University of Melbourne, pp. 427-436.
- Goel, A., Gomez, A., Grue, N., Murdock, J., & Recker, M., (1997). Functional explanations in design. In *Proceedings of IJCAI-97 Workshop on Modeling and Reasoning about Function*. Nagoya, Japan.
- Recker, M. & Beal, T. (1996). Collaborative Filtering via PICS: A Case study in Categorising and Evaluating Asia Information. In *Proceedings of OZCHI'96 Workshop on the Next Generation of CSCW Systems*, University of Waikato, Dept of Computer Science working paper, 96/29, ISSN 1170-487X, pp. 37-40.
- Recker, M. (1996). Methodologies in tightly and loosely coupled dynamic information ecologies. In *Proceedings of Sixth Australian Conference on Computer-Human Interactions*, IEEE Computer Society Press, pp. 272-279.
- Shikano, T., Recker, M., & Ram, A. (1996). Evaluating structural organization of a hypermedia learning environment using GOMS model analysis. In *Proceedings of Educational Multimedia and Hypermedia, 1996*, AACE: Virginia.
- Greenwood, J. & Recker, M. (1996). Networked, asynchronous student evaluations of courses and teaching: An architecture and field studies. In *Proceedings of Educational Multimedia and Hypermedia, 1996*, pp. 270-275, AACE: Virginia.
- Goel, A., Gomez, A., Grue, N., Murdock, J., Recker, M., & Govindaraj, T. (1996). Design learning environments: exploring how devices work. In *Proceedings of the 1996 Conference on Intelligent Tutoring Systems*, Montreal, Canada.
- Goel, A., Gomez, A., Grue, N., Murdock, J., Recker, M., & Govindaraj, T. (1996). Design explanation in interactive design environments. In *Proceedings of Artificial Intelligence in Design, 96*, Kluwer Academic Publishers.
- Recker, M. & Greenwood, J. (1995). An interactive student evaluation system. In *Proceedings of the Asia-Pacific World Wide Web'95 Conference*, pp. 178-184.

- Recker, M. (1995). Educational multimedia and student information access. In *Proceedings of 1995 Conference of the Higher Education and Research Development Society of Australia (HERDSA)*. Research and Development in Higher Education, Vol. 18, pp 615-620.
- Recker, M., Govindaraj, T., & Vasandani, V. (1994). Troubleshooting strategies in a complex, dynamical domain. In *Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society*. Hillsdale, NJ: Lawrence Erlbaum Associates, pp. 739-744.
- Recker, M. & Ram, A. (1994). Cognitive media types as indices for educational hypermedia systems. In *Proceedings of the 1994 AAAI Workshop on Indexing and Reuse in Multimedia Systems*. Menlo Park: AAAI.
- Recker, M. (1994). A methodology for analyzing students' interactions within educational hypertext. In *Proceedings of Educational Multimedia and Hypermedia Annual, 1994*. Virginia: AACE, pp. 474-479.
- Pitkow, J. & Recker, M. (1994). Bottom-up and top-down methodologies for intelligent hypertext. In *Proceedings of CIKM '94 Workshop on Intelligent Hypertext*. Maryland: NIST.
- Pitkow, J. & Recker, M. (1994). A simple yet robust caching algorithm based on dynamic access patterns. In *Proceedings of the Second International World-Wide Web Conference*. Amsterdam: Elsevier Science BV.
- Recker, M. (1993). Self-explaining instructional materials: analyses of parameters underlying a model of individual differences. In *Proceedings of the Fifteenth Annual Conference of the Cognitive Science Society*. Hillsdale, NJ: Lawrence Erlbaum Associates, pp. 842--847.
- Recker, M. & Pirolli, P. (1992). Student strategies for learning programming from a computational environment. In *Proceedings of the International Conference on Intelligent Tutoring Systems*. Berlin: Springer Verlag Lecture Notes in Computer Science, pp. 382-394.
- Bielaczyc, K. & Recker, M. (1991). Learning to learn: the implications of strategy instruction in computer programming. In Birnbaum, L. (Ed), *Proceedings of International Conference of the Learning Sciences*. Charlottesville, VA: Association for the Advancement of Computing in Education, pp. 39-44.
- Pirolli, P. & Recker, M. (1989). The explanation of programming examples. In Wilkins, D.C., editor, *Proceedings of the Workshop on Models of Complex Human Learning*. Available as report no. UIUCDCS-R-89-1520, Department of Computer Science, University of Illinois at Urbana-Champaign.

Other publications

- Willis, D. & Recker, M. (1998). Negotiating and enhancing critical thinking. *Networks*, New Zealand Commerce and Economics Teachers' Association, 33(2), 4-7.

- Recker M. Centralised, distributed learning, *NZ Education Review*, June 1997.
- Recker, M. Wired teaching and learning, *NZ Education Review*, April 1997.
- Recker, M. Virtually Vic? Column in *VICNews*, April 1997.
- Recker, M. (1996, July). Fifth Gvu WWW User Survey: Analysis of responses from WWW Users in New Zealand.
- Recker, M. & Greenwood, J. (1995, December). Fourth Gvu WWW User Survey: Analysis of responses from WWW Users in the South Pacific.
- Recker, M. The Convergence of Information and Educational Technologies. *New Zealand InfoTech Weekly*, Number 211, 25 September, 1995.
- Recker, M. Designing Systems for People. *Computer Currents*, Vol. 6, no. 2, 1994.
- Kirkpatrick, S., Stahl, M., & Recker, M. (1990, July). RFC 1166, Internet Numbers. InterNIC, *Request for Comments Technical Note*.
- Romano, S., Stahl, M., & Recker, M. (1989, August). RFC 1117, Internet Numbers. InterNIC, *Request for Comments Technical Note*.
- Romano, S., Stahl, M., & Recker, M. (1988, August). RFC 1062, Internet Numbers. InterNIC, *Request for Comments Technical Note*.

Reports

- Shaaron Ainsworth, Margaret Honey, W. Lewis Johnson, Kenneth Koedinger, Brandon Muramatsu, Roy Pea, Mimi Recker, and Stephen Weimar (2005). *Cyberinfrastructure for Education and Learning for the Future: A Vision and Research Agenda*. A report to the National Science Foundation. CRA: Washington, DC.
- DeCharon, A., Recker, M., & Shelton, B. (2004). *Visual Interfaces for DLESE*. A report to the DLESE Quality Working Group.
- Shumar, W., Hoadley, C., Recker, M., Renninger, A., & Schlager, M. (2003). *Social activity in educational digital libraries*. Interim report to the CILT seed grant program.
- Cassell, B., Jones, C., Recker, M., Ridgeway, J., Sumner, T., & Bethard, S. (2003). *Report of the NSDL evaluations controlled vocabulary project*.
http://eduimpact.comm.nsdlib.org/doc_tracker/docs_download.php?id=430
- Walker, A., Recker, M., Wiley, D., & Yedurupad, B. (2001). *A review of the literature: Collaborative information filtering and its application to education*. Technical Report: Utah State University Department of Instructional Technology.
- Marshall, S. & Recker, M. (1998). *Uses of information technology in teaching and learning*. A report to the Distance and Flexible Learning Working Party.

- Recker, M. & Marshall, S. (1998). *Educational technology developments at Victoria University of Wellington*. A report to the Distance and Flexible Learning Working Party.
- Shikano, T., Recker, M., & Ram, A. (1996). *Evaluating structural organization of a hypermedia learning environment using GOMS model analysis* (Technical Report GIT-CS-96-04).
- Recker, M., & Kolodner, J. (1994). *Designing an interactive multimedia environment for learning and aiding troubleshooting* (Technical Report GIT-CS-94-34). Atlanta, GA: Cognitive Science Program, Georgia Institute of Technology. Final report to the Office of Naval Research.
- Pirolli, P. & Recker, M. (1991). *Knowledge construction and transfer using an intelligent tutoring system: the role of examples, self-explanation, and reflection* (Technical Report CSM-1). Berkeley, CA: School of Education, University of California, Berkeley.
- Recker, M. & Pirolli, P. (1991). *Analyses of self-explanation verbal protocols: Description of a protocol coding scheme and representative protocols* (Technical Report CSM-5). Berkeley, CA: University of California, Berkeley, School of Education.
- Cross, P., Kahn, S., Landsbergen, J., Ostapik, F., Recker, M., & Sameshima, H. (1989). *Network audit-trail and usage reporting system (NAURS)* (SRI Technical Report DCA 200-87-0020). Menlo Park, CA: SRI International.
- Harrenstein, K., Macky, I., & Recker, M. (1988). *NIC network server system* (SRI Technical Report). Menlo Park, CA: SRI International.
- Macky, I. & Recker, M. (1988). *NIC information retrieval tools system* (Technical Report). Menlo Park, CA: SRI International.

Workshops

- Recker, M. (2007, June). *Mixed method educational research*. Half-day workshop presented at University of Malaya, Kuala Lumpur, Malaysia.
- Recker, M. (2007, June). *An interactive exploration of digital library educator tools*. Full-day workshop presented at ICOOL 2007, Penang, Malaysia.
- Manduca, C., Songer, N., Recker, M., & Boyd, T. (2003, February). *Design principles for creating effective web-based learning resources in the geosciences*. Two-day Workshop at the University of Michigan, Ann Arbor, supported by the National Association of Geoscience Teachers and DLESE with funding provided by a grant from the National Science Foundation.
- Shumar, W., Hoadley, C., Recker, M., Renninger, K.A. & Schlager, M. (2002, October). *Social activity in educational digital libraries: community, tools, and resources for*

learning. Half-Day workshop organized at The International Conference of the Learning Sciences, Seattle, Washington.

Invited talks and refereed conference paper presentations

Recker (2008, October). *Evaluation Strategies with the DLConnect Project*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

Recker (2008, October). *The NSDL in the Wild: Encounters with K-12 Classroom, Library, and Policymakers' Implementation of NSDL*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

Robertshaw, B., Bloxham, K., Walker, A., Leary, H., & Recker, M. (2008, September). *Teacher as designers of online and open educational resources: An empirical examination of professional development for re-use*. Paper presented at the Open Ed Conference, Logan, UT.

Leary, H., Holsted, S., Palmer, B., & Recker, M. (2008, September). *Supporting Meaningful Learning with Online Resources: Developing a Review Process*. Paper presented at the Open Ed Conference, Logan, UT.

Recker, M., Walker, A., & Giersch, S. (2007, November). *Engaging Educators with the NSDL by Design: Lessons Learned*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

Recker, M. & Palmer, B. (2007, November). *Beyond Webmetrics*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

Recker, M. (2007, June). *Teachers as Consumers, Contributors, and Designers of Online Learning Resources*. Paper presented at *ICOOL 2007*, Penang, Malaysia.

Recker, M. (2007, May). *Opportunities in Educational Digital Libraries*. Invited presentation at the University of Adelaide, Australia.

Recker, M. (2006, October). *Engaging Educators with NSDL Content and Services Through Outreach Activities*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, DC.

Recker, M. (2006, October). *Dissemination Activities: Digital Libraries go to School*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

Recker, M. (2006, October). *Information Seeking Behaviors: The Case for Teachers*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.

- Recker, M. (2006, June). *At Your Service: The Case of the Instructional Architect*. Invited Brown Bag Presentation at the National Science Foundation, Washington, D.C.
- Recker, M. & Palmer, B. (2006, June). *Using Content Across Digital Libraries*. Paper presented at the Joint Conference on Digital Libraries, Chapel Hill, NC.
- Recker, M. (2006, April). *Cyber-infrastructure and Education Research - A research agenda for cyber-learning*. Member of symposium presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Recker, M., Dorward, J., Dawson, D., Liu, Y., Mao, X., Palmer, B., Park, J. & Halioris, S. (2006, April). *Learning Objects: Resources for Teacher Design?* Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Recker, M. (November, 2005). *Integration with Core Services: the Case of the Instructional Architect*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Denver, CO.
- Recker, M. (November, 2005). *Teacher Design and Learning Resources Granularity*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Denver, CO.
- Mardis, M. & Recker, M. (2005, November). *Giving Good Workshops: Challenges, Successes, and Impacts in user engagement*. Workshop conducted at the National Science Foundation National STEM Digital Library Annual Meeting, Denver, CO.
- Mao, X & Recker, M. (2005, October). *Using a Conceptual Tool to Teach Higher Order Thinking Skills in an Online Environment*. Paper presented at the AECT Annual Convention, Orlando, Florida.
- Liu, Y & Recker, M. (2005, October). *How Do Persons with Learning Disabilities Experience Educational Websites: A Phenomenological Inquiry*. Poster presented at the AECT Annual Convention, Orlando, Florida.
- Recker, M., Dorward, J., Dawson, D., Halioris, S., Liu, Y., Mao, X., Palmer, B., & Park, J. (2005, June). *You can lead a horse to water*. Paper presented at the Joint Conference on Digital Libraries, Denver, CO.
- Recker, M., Dorward, J., Halioris, S., Dawson, D., & Lyman, M. (2005, April). *Teacher Use of Online Learning Resources: Assessing the Impact of a Participatory Workshop Model*. Paper presented at the Annual Meeting of the American Education Research Association, Montreal, Canada.
- Recker, M. (2004, December). *Addressing the effective use of learning objects through teacher education*. Paper presented at the Cognition and Exploratory Learning in the Digital Age Conference. Lisbon, Portugal.

- Recker, M. (2004, October). *Design-based development methods; The case of the Instructional Architect*. Invited talk presented at the National Science Foundation National STEM Digital Library Annual Meeting, Chicago, IL.
- Liu, Ye, Palmer, B., & Recker, M. (2004, October). *Building Accessible Educational Web Sites: The Law, Standards, Guidelines, Tools, and Lessons Learned*. Paper presented at the AECT Annual Convention, Chicago, Illinois.
- Cassell, B., Jones, C., Recker, M., Ridgway, J., Sumner, T. Shreve, G. Zeng, Subrahmanyam, B., and Shin, Peter (2004) What's in the NSDL Metadata Repository? EIESC (Educational Impact and Evaluation Standing Committee) SIG presentation at the 2004 NSDL All Projects Meeting, Chicago, Illinois. URL: <http://dlist.sir.arizona.edu/608/>
- Liu, Ye & Recker, M. (2004, October). *Supporting teachers in the design of instruction using learning objects*. Poster presented at the AECT Convention, Chicago, Illinois.
- Recker, M., Dorward, J., Halioris, S., Dawson, D., & Lyman, M. (2004, September). *Diffusing learning objects in the classroom*. Paper presented at the Instructional Technology Institute, Logan, UT.
- Recker, M. & Dorward, J. (2004, April). *Teacher activity structures in online repositories of learning resources: Implications for tool design*. Paper presented at the Annual Meeting of the American Education Research Association, San Diego, CA.
- Recker, M., (2003, October). *Designing for reuse and accessibility*. Invited panel member at National Science Foundation National STEM Digital Library Meeting, Washington, D.C.
- Recker, M., Dorward, J., & Nelson, L. (2003, August). *Teachers' discovery and use of digital library learning resources*. Paper presented at the Instructional Technology Institute, Logan, UT.
- Recker, M. (2003, August). *The Instructional Architect DLESE portal*. Poster presented at the Annual Meeting of the Digital Library for Earth System Education (DLESE), Boulder, CO.
- Recker, M. (2003, April). *In Depth Interviews as Complement to Online Forms of User Activity Research*. Paper presented at the Annual Meeting of the American Education Research Association, Chicago, IL.
- Walker, A. & Recker, M. (2003, April). *Applications of Collaborative Filtering to Support Student Learning: Results from an Empirical Study*. Paper presented at the Annual Meeting of the American Education Research Association, Chicago, IL.
- Recker, M. & Walker, A. (2003, April). *What do you recommend? Implementation and analyses of collaborative filtering of Web resources for education*. Paper presented at the Annual Meeting of the American Education Research Association, Chicago, IL.

- Recker, M. (2002, December). *Emergent themes from the Instructional Architect Project*. Invited talk presented at the National Science Foundation National STEM Digital Library Meeting, Washington, D.C.
- Recker, M. (2002, December). *Development and Evaluation of Instructional Architect: theory and practice*. Invited talk presented at the National Science Foundation National STEM Digital Library Meeting, Washington, D.C.
- Logan, S. & Recker, M. (2002, October). *Conducting an Internet survey of avalanche center users*. Poster presented at the 2002 International Snow Science Workshop (ISSW), British Columbia.
- Recker, M. (2002, September). *The Instructional Architect and learning object assembly*. Paper presented at the Instructional Technology Summer institute, Logan, UT.
- Recker, M. (2002, April). *The Instructional Architect and the NSDL*. Paper presented at the Annual Meeting of the American Education Research Association, New Orleans, LA.
- Walker, A., & Recker, M. (2001, November). *Beyond Amazon.com: collaborative filtering applications in education*. Paper presented at the 2001 AECT National Convention, Atlanta, GA.
- Recker, M., Wiley, D., & Walker, A. (2001, November). *The Instructional Architect: Accessing and combining learning objects for instruction*. Paper presented at the 2001 AECT National Convention, Atlanta, GA.
- Recker, M. (2001, April). *Discourse processing in the new millennium*. Invited discussant for paper session at the Annual Meeting of the American Education Research Association, Seattle, WA.
- Recker, M., Lawless, K., & Walker, A. (2001, April). *Using collaborative filtering algorithms to support online learning communities*. Paper presented at the Annual Meeting of the American Education Research Association, Seattle, WA.
- Soulier, S. & Recker, M. (2001, March). *Development of an ePortfolio builder for teacher education*. Paper presented at SITE - Society for Information Technology and Teacher Education International Conference, Orlando, FL.
- Wiley, D. & Recker, M. (2001, March). *The Instructional Architect: A system for discovering, recommending, and combining learning objects*. Poster presented at SITE - Society for Information Technology and Teacher Education International Conference, Orlando, FL.
- Wiley, D., Muramatsu, B., & Recker, M. (2000, November). *The Instructional Architect and digital libraries for education*. Paper presented at the *World Conference on the Web and Internet*. San Antonio, TX.

- Recker, M. M., Walker, A., & Wiley, D. (2000, August). *Collaboratively filtering learning resources*. Invited presentation at the Instructional Technology Summer institute, Logan, UT.
- Recker, M., Walker, A., & Wiley, D. (2000, June). *An interface for collaborative filtering of educational resources*. Paper presented at the 2000 International Conference on Artificial Intelligence (IC-AI'2000): June 26-29, 2000, Las Vegas, Nevada, USA.
- Recker, M. & Hedrich, A. (2000, June). *Instructional design, digital libraries, and the new Internet*. Paper presented at the Annual Meeting of the LOEX of the West, Montana State University.
- Recker, M. Rogers, J., Olson, D., DuPlessis, J., & DeBry, D. (2000, April). *Communities of practice: A thinking practices framework for instructional technology*. Paper presented at the Annual Meeting of the American Education Research Association, New Orleans.
- Recker, M. & Lawless, K. (1999, October). *A Website does not a community make*. Paper presented at the World Conference on the Web and Internet, Hawaii.
- Recker, M. & Gunn, C. (1999, October). *The global virtual university: International perspectives*. Paper presented at RUFIS '99: The Virtual University, Northern Arizona University.
- Recker, M. (1999, October). *Integrating flexible learning technologies*. Paper presented at RUFIS '99: The Virtual University, Northern Arizona University.
- Recker, M. (1999, June). *Opportunities and pitfalls along the instructional superhighway*. Invited seminar presented at ISPI-Utah (International Society for Performance Improvement), Salt Lake City.
- Recker, M. & Thirkell, P. (1998, August). *Marketing New Zealand Education on the World-Wide Web*. Invited talk presented at New Zealand Education International Conference (NZEIL), Wellington, New Zealand.
- Recker, M. (1998, August). *Innovative, flexible learning technologies*. Invited speaker at *Tertiary Education 1998 Conference*, Wellington, New Zealand.
- Gunn, C., Lamb, M., Recker, M., & Frielick, S. (1998, July). Educational technologies: Implications for academic development. Paper presented at *the International Conference of the Higher Education Research and Development Society of Australasia*, Auckland, New Zealand.
- Willis, D. & Recker, M. (1998, April). *Enhancing critical thinking*. Invited seminar presented at CETA annual conference, Wellington, New Zealand.
- Recker, M. (1998, April). *The Web is not a digital library*. Invited seminar presented at TUANZ breakfast seminar series, Wellington, New Zealand.

- Recker, M. (1998, March). *PowerPoint is not educational technology*. Invited seminar presented at the department of instructional technology, Utah State University, Utah.
- Recker, M. (1997, October). *Smartcards for education?* Invited talk presented at TUANZ Impact'97 seminar series, Wellington, New Zealand.
- Recker, M. (1997, September). *Planning for the potentials of educational technologies*. Keynote address to the NZPPTA Principal's conference, Auckland, New Zealand.
- Recker, M. (1997, July). *Community, distributed information filtering*. Poster presented at the Nineteenth Annual Conference of the Cognitive Science Society, Stanford University, California.
- Recker, M. (1997, August). *Potholes and potentials along the information highway*. Invited seminar presented at Whitireia Polytechnic, Porirua, New Zealand.
- Recker, M. (1997, June). *The Internet and globalisation: Impacts on New Zealand*. Invited paper presented at 'Globalisation and local cultures: Emerging issues for the 21st century' seminar, Royal Society of New Zealand, Wellington, New Zealand.
- Recker, M. & Beal, T. (1997, April). *The Web as an authentic, collaborative design tool for marketing education*. Paper presented at CAUSE'97, Melbourne, Australia.
- Recker, M. (1997, March). *Wired teaching and learning*. Invited talk presented at New Zealand Education International Conference (NZEIL), Wellington, New Zealand.
- Recker, M. (1997, March). *Digital Censorspace: New Technologies, old problem?* Invited talk presented at New Zealand Government Information Systems Conference, Wellington, New Zealand.
- Recker, M. (1997, March). *Intranet and education*. Invited talk at the Telecommunications Association of New Zealand AGM, stream on Education, Wellington, New Zealand.
- Recker, M. (1996, November). *Methodologies in tightly and loosely coupled dynamic information ecologies*. Invited talk presented at Department of Information Science, Otago University, New Zealand.
- Recker, M. (1996, November). *PICS for New Zealand*. Invited talk presented at the Internet Society of New Zealand (ISOCNZ) AGM, 13 November 1996, Wellington, New Zealand.
- Recker, M. (1996, November). *Collaborative filtering via PICS: a case study in categorising and evaluating Asia information*. Paper presented at the OZCHI'96 Workshop on the Next Generation of CSCW Systems, Hamilton, New Zealand.
- Recker, M. (1996, November). *Methodologies in tightly and loosely coupled dynamic information ecologies*. Paper presented at the Sixth Australian Conference on Computer-Human Interactions, OZCHI'96, Hamilton, New Zealand.

- Recker, M. (1996, October). *Appropriate use of new learning technologies: A layered approach*. Invited talk presented at the TUANZ Seminar series, "Communication Technologies -- What are their Social and Cultural Implications for New Zealand?", Wellington, New Zealand.
- Greenwood, J. and Recker, M. (1996, June). *Networked, asynchronous student evaluations of courses and teaching: An architecture and field studies*. Paper presented at ED-MEDIA/ED-TELECOM'96, Boston, MA, U.S.A.
- Recker, M. (1996, February). *Multi-Methods for multimedia information spaces*. Invited paper presented at the Office of Naval Research Workshop on Issues in Interactive Multimedia, New Mexico State University, Las Cruces, New Mexico, USA.
- Recker, M. & Greenwood, J. (1995, September). *An interactive student evaluation system*. Paper presented at AUUG'95 & Asia-Pacific World Wide Web Conference'95, Sydney, Australia.
- Recker, M. (1995, August). *The convergence of information and educational technologies: New opportunities, new challenges*. Invited address at the New Zealand Computer Society Conference (NZCS'95), Wellington, New Zealand.
- Recker, M. (1995, July). *Educational multimedia for student information Access*. Paper presented at HERDSA '95 Conference, Rockhampton, Australia.
- Recker, M., Ram, A., Li, G., Shikano, T., and Stasko, J. (1995, April). *Multimedia information access in support of knowledge construction*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Recker, M. (1994, December). *Panel on evaluation and instructional technology*. Winter Symposium of EduTech Institute, Georgia Institute of Technology, Atlanta, GA.
- Recker, M., Govindaraj, T., and Vasandani, V. (1994, August). *Troubleshooting strategies in a complex, dynamical domain*. Paper presented at the Sixteenth Annual Meeting of the Cognitive Science Society, Atlanta, GA.
- Recker, M. (1994, June). *A methodology for analyzing students' interactions within educational hypertext*. Paper presented at ED-MEDIA '94, World Conference on Educational Multimedia and Hypermedia, Vancouver, Canada.
- Recker, M. (1993, June). *Explorations in the parameter space of a model fit to individual subjects' learning strategies*. Paper presented at the Fifteenth Annual Meeting of the Cognitive Science Society, Boulder, CO.
- Recker, M. (1993, May). *Student learning strategies in resource-bounded situations*. Invited talk presented at Northwestern University, Evanston, IL.

- Recker, M. (1993, April). *Students' attitudes toward computer-based instructional environments*. Paper presented at the Annual Meeting of the American Educational Research Association, Atlanta, GA.
- Recker, M. (1992, September). *Students' strategies for learning programming from a computational environment*. Invited talk presented at the EMST/Sesame Colloquium, University of California, Berkeley, CA.
- Recker, M. and Pirolli, P. (1992, June). *Students' strategies for learning programming from a computational environment*. Paper presented at the International Conference on Intelligent Tutoring Systems, Montreal, Canada.
- Recker, M. (1992, May). *Strategies for learning programming from a computational environment*. Invited talk presented at the Georgia Institute of Technology, Atlanta, GA.
- Recker, M. (1992, April). *Strategies for learning programming from a computational environment*. Invited talk presented at IBM, Santa Teresa Lab, San Jose, CA.
- Bielaczyc, K. & Recker, M. (1991, August). *Learning to learn: The implications of strategy instruction in computer programming*. Paper presented at the International Conference of the Learning Sciences, Northwestern University, Evanston, IL.
- Recker, M. (1991, April). *Learning recursive programming through the construction of explanations*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Recker, M. & Pirolli, P. (1990, November). *Toward a model of self-explanation strategies in learning computer programming*. Paper presented at the Soar Workshop VIII, Marina del Rey, CA.
- Recker, M. (1990, November). *Object oriented programming*. Invited talk presented at the University of California, San Francisco, CA.
- Recker, M. & Pirolli, P. (1990, April). *A model of self-explanation strategies of instructional text and examples in the acquisition of programming skills*. Paper presented at the Annual Meeting of the American Educational Research Association, Boston, MA. (ERIC Clearing-House number TM014923).
- Pirolli, P. & Recker, M. (1989, June). The explanation of programming examples. Poster presented at the *Workshop on Models of Complex Human Learning*, Cornell University, Ithaca, NY.

TEACHING AND ADVISING

Department of Instructional Technology, Utah State University.

Designed and taught new courses and seminars for masters and doctoral students, including Learning Theory, Instructional Design Theory, Educational Digital Libraries, and Online Learning. Advise M.S. and Ph.D. candidates.

University Teaching Development Centre, Victoria University of Wellington.

Designed and taught new courses/seminars for academic staff including: designing multimedia for teaching; use of Internet resources in teaching and learning; Teaching for collaborative learning; publishing on the World-Wide Web; digital video editing; evaluation of educational technology.

Victoria University of Wellington, 1995-1998.

Taught course modules in several different undergraduate and graduate courses, including Computer Science, Education, and Marketing departments.

Centre for Continuing Education, Victoria University of Wellington.

Designed and taught many day-long, professional development courses on aspects of digital and World-Wide Web publishing.

Center for New Media and Education, Georgia Institute of Technology, 1994.

Designed and taught continuing education courses on *Multimedia in Education*.

College of Computing, Georgia Institute of Technology, 1994

Designed and taught a graduate-level seminar entitled "Educational Technology." The course was also cross-listed in the School of Industrial and Systems Engineering and in the School of Language, Culture, and Communication. To my knowledge, this was the university's first course to use the Web in instruction.

Department of Computer Science, University of California, Berkeley, 1989

Graduate Student Instructor, *Introduction to Computer Science*.

Post-doctoral Fellow Advising

David Wiley, 2000-2001.

Doctoral Student Advising

Xin Mao (Ph.D. Instructional Technology, December 2007, Utah State University). Advisor.

Deonne Dawson (Ph.D. Instructional Technology, August 2007, Utah State University). Advisor.

Jim Rogers (Ph.D. Instructional Technology, August 2007, Utah State University). Advisor.

Tyler Griffin (Ph.D. Instructional Technology, May 2007, Utah State University). Member of committee.

Elizabeth Lenell (Ph.D. Cognitive Science, December 2006, University of Colorado, Boulder). Member of committee.

Tom Birch (Ph.D. Curriculum and Instruction, August 2006, Utah State University). Member of committee.

Stacie Gomm (Ph.D. Instructional Technology, August 2004, Utah State University). Advisor (currently Vice President for Information Technology at Utah State University).

Joel Duffin (Ph.D. Instructional Technology, December 2003, Utah State University). Member of committee.

Andrew E. Walker (Ph.D. Instructional Technology, December 2002 Utah State University). Advisor (currently Assistant Professor at Utah State University).

David DeBry (Ph.D. Instructional Technology, May 2002, Utah State University). Member of committee.
 Kwangsoo, K. and Kathy Chen (Ph.D. Instructional Technology, May 2001, Utah State University). Member of committee.
 Michael Cox (Ph.D. Computer Science, 1996, Georgia Institute of Technology). Member of committee.

M.S. Student Advising (thesis)

Bracken Henderson. (M.S. Natural Resources, May 2007, Utah State University). Member of committee.
 Brianna Schiess. (M.S. Health, Physical Education and Recreation, May 2003, Utah State University). Member of committee.
 Linda DuHadway. (M.S. Computer Science, August 2002, Utah State University). Member of committee.
 Loren D. Finn. (M.S. Health, Physical Education and Recreation, May 2002, Utah State University). Member of committee.
 Rebekah Richards (M.S. Instructional Technology, August 2001, Utah State University). Advisor.
 Samuel Ng (Master of Management Studies in Technology, 1998, Victoria University of Wellington). Advisor.
 Grue, N. (M.S. Computer Science, 1994, Georgia Institute of Technology). Member of thesis committee.
 Farrow, S. (M.S. Mechanical Engineering, 1994, Georgia Institute of Technology). Member of thesis committee.
 Robyn Smits (Master of Education, 1998, Massey University). External marker.

M.S. Student Advising (non-thesis)

Richard Gittens (M.Ed., Instructional Technology, 2008, Utah State University). Advisor.
 Erik Hjorten, Alex Stoddard, Jennifer Jorgenson, Kelby VanBeekum (M.S. Instructional Technology, 2006, Utah State University). Advisor.
 Bart Palmer, Shane Thomas, Mark Leonard (M.S. Instructional Technology, 2005, Utah State University). Advisor.
 Peter Blair, Ye Liu, John Love (M.S. Instructional Technology, 2004, Utah State University). Advisor.
 Joshua Burr, Travis Jordan, Randall Bagley, Ben Harrison, Jonathan Freestone, Marc Lundstrom, Sharolyn Ericksen (M.S. Instructional Technology, 2003, Utah State University). Advisor.
 Jared Schaalje, Christopher Phillips (M.S. Instructional Technology, 2002, Utah State University). Advisor.
 Ann Smart, Jaeyang Park (M.S. Instructional Technology, 2001, Utah State University). Advisor.
 Brad Barker, Heidi Casperson, Justin Long, Eric Orton, Jessica Anderson, Tracey Smith, Andrew Walker, and Erin Edwards (M.S. Instructional Technology, 2000, Utah State University). Advisor.

HONORS AND AWARDS

- Article nominated for Vannevar Bush Best Paper Award: Recker, M., Dorward, J., Dawson, D., Halioris, S., Liu, Y., Mao, X., Palmer, B., & Park, J. (2005). You can

lead a horse to water. In *Proceedings of the Joint Conference on Digital Libraries* (pp. 1-7), New York: ACM.

- Selected for inclusion in the Academic Keys Who's Who in Education (WWE), 2003.
- Article nominated for Vannevar Bush Best Paper Award: Tamara Sumner, Michael Khoo, Mimi Recker, and Mary Marlino (2003). Understanding Educator Perceptions of "Quality" in Digital Libraries, *Proceedings of Joint Conference on Digital Libraries*.
- Best paper award: Pitkow, J. and Recker M (1995) Using the Web as a Survey Tool: Results from the Second WWW User Survey. *3rd International World-Wide Web Conference*, Darmstadt, Germany.
- University of California Regents' Dissertation Fellowship, 1991-1992.
- University of California Regents' Travel Award, 1991.
- C.D. Weinman Fellowship in Instructional Technology, 1990.
- Pi Mu Epsilon, National Mathematics Honor Society, 1983.

PROFESSIONAL ACTIVITIES

Professional Service

- Program committee for IADIS International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2008), 13-15 October 2008, Freiburg, Germany.
- Member of program committee for WEBIST 2008 (4th International Conference on Web Information Systems and Technologies), Funchal, Madeira, Portugal May, 2008.
- Member of the Program Committee for the IADIS International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2007) December 2007, Algarve, Portugal.
- Member of the Program Committee for the 3rd International Conference on WEB Information Systems and Technologies, March 2007, Barcelona, SPAIN.
- Guest Editor (with Lillian Cassel and Sarah Giersch), *International Journal of Digital Libraries* Special Issue on Digital Libraries and Education, 2007.
- Member of the Program Committee for the IADIS International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2006) December 2006, Barcelona, SPAIN.
- Member of the Program Committee for the 6th Joint Conference on Digital Libraries (JCDL 2006), Chapel Hill, NC, USA, June, 2006.
- Member and chair of the award committee for best student paper presented at the Annual Meeting of the American Education Research Association (AERA) SIG ATL/LS, 2005-
- Member of the Program Committee for the IADIS International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2005), 15-17 December 2005, Porto, PORTUGAL.
- Member of the Program Committee for the 5th Joint Conference on Digital Libraries (JCDL 2005), Denver, CO, USA, June 7-11, 2005.
- Member of the Program Committee for the IADIS International Conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2004), 15-17 December 2004, Lisbon, PORTUGAL.
- Member, National Science Foundation grant advisory board, Exploratorium Online: Exhibit-Based Science Learning and Teaching Digital Library, 2003-2005.

- Member of the Program Committee for the 6th International Conference of the Learning Sciences (ICLS 2004), UCLA Graduate School of Education & Information Studies in Santa Monica, California, USA, June 22-26, 2004.
- Elected member of DLESE (Digital Library for Earth System Education) steering committee, 2003-2005.
- Chair of AERA Special Interest Group in Advanced Technologies for Learning (SIG-ATL), 2003-2004.
- Nominated member, National Learning Information Infrastructure (NLII) Learning Objects Work Group, EDUCAUSE. 2002-2003.
- Member of National Science Foundation (NSF) National SMET Digital Library (NSDL) Educational Impact and Evaluation Committee, 2002-.
- Elected member of National Science Foundation (NSF) National SMET Digital Library (NSDL) Coordinating and Nominating Committee, 2000-2001.
- Elected co-chair of National Science Foundation (NSF) National SMET Digital Library (NSDL) Community, Education, and Pedagogy Working group, 2000-2002.
- Member of editorial board, *International Journal of Instructional Media*, 2002-.
- Member of editorial board, *Journal of the Learning Sciences*, 1995-2006.
- Elected member of Council, Internet Society of New Zealand, 1997-1998.
- Board member, New Zealand Internet Institute, 1997-1998.
- Member of the Program Committee for the 1998 International Conference of the Learning Sciences
- Member of the Steering Committee for the 1994 Conference of the Cognitive Science Society, Atlanta

Reviewing

- National Science Foundation, Panel reviewer, DCI program, February, 2008
- Israel Science Foundation, Reviewer, 2007.
- National Science Foundation, Panel reviewer, REESE program, June, 2006
- Reviewer, Joint Conference on Digital Libraries (2005, 2006)
- Reviewer, 6th International Conference of the Learning Sciences (ICLS 2004).
- Reviewer for the IADIS International Conference on Cognition and Exploratory Learning in the Digital Age (2004, 2005, 2006)
- Reviewer, Prentice Hall/Merrill Education, ongoing.
- National Science Foundation, Panel reviewer, EREC program, June, 2003
- National Science Foundation, Panel chair, EREC program, June, 2003
- National Science Foundation, Site reviewer, ITR program, October, 2002
- National Science Foundation, Panel reviewer, ROLE program, July, 2002.
- National Science Foundation, Panel reviewer, ROLE program, January, 2002.
- Reviewer, Annual meeting of American Education Research Association, 1999-present.
- Reviewer, *Journal of the Learning Sciences*, 1995-present.
- Member of the Program Committee for the 1998 International Conference of the Learning Sciences.
- Member of the Steering Committee for the 1994 Conference of the Cognitive Science Society, Atlanta.
- Article reviewer for Journal of Interactive Learning Environments, IEEE Transactions; Australian Journal of Educational Technology; Cognitive Science Journal; Journal of the Learning Sciences; Instructional Science; ACM Transactions on Computer-Human Interaction; International Journal of Computers and Education;

1994, 1996, 1997 Cognitive Science Conference; 1992 International Conference on Intelligent Tutoring Systems; 1994 World-Wide Web Conference.

University Service

- Member, College of Education Research Council, 2005-2007
- Member, Allies on Campus, a group committed to reducing homophobia and heterosexism on campus, 2004-
- Member, search committee for assistant/associate professor, Department of Instructional Technology, 2004
- Member, search committee for Dean, College of Education and Human Services, 2004
- Member, search committee for computer support staff, Department of Instructional Technology, 2004
- Member, Compact Planning Selective Investment Advisory Committee, reporting to the President, 2003
- Chair, search committee for assistant/associate professor, Department of Instructional Technology, 2003
- Member, search committee for Office of Technology Commercialization Director, 2002
- Member, Academic Freedom and Tenure Committee, 2001-2004
- Member, search committee for Instructional Technology Department Lecturer, 2002
- Member, MS admissions committee, 1999-2003
- Chair/member, PhD curriculum committee, 1999-present
- Member, promotion and tenure committees for 4 university faculty, 2001-present
- Member, University Graduate Council Committee, 2000
- College of Education, Graduate student proposal reviewer, 2001-present

LANGUAGES

French: fluent. Dutch: speak, read.