

CURRICULUM VITAE

Mimi M. Recker

Professor

Department of Instructional Technology & Learning Sciences
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PROFESSIONAL EXPERIENCE

Department of Instructional Technology & Learning Sciences, Utah State University

<i>2005--</i>	Professor
<i>2008--2015</i>	Department Head
<i>1998--2005</i>	Associate Professor

University Corporation for Atmospheric Research, Boulder, CO

<i>2015-16</i>	Visiting Scholar
<i>2007</i>	Visiting Scholar

School of Education, University of Adelaide, Australia

<i>2007</i>	Visiting Scholar
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Victoria University of Wellington, Wellington, New Zealand

<i>1996--1998</i>	Senior lecturer in educational technology
<i>1997</i>	Acting Director, Teaching Development Centre
<i>1995--1996</i>	Lecturer in educational technology

Georgia Institute of Technology, Atlanta, GA, U.S.A.

<i>1992--1994</i>	Research scientist, College of Computing
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Research in educational technology, networked information access, and artificial intelligence.

University of California, Berkeley, CA, U.S.A.

<i>1988--1992</i>	Graduate student researcher, School of Education
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SRI International, Menlo Park, CA. U.S.A.

<i>1983--1992</i>	Software engineer
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Software engineer on Arpanet (now Internet) computer networking project

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

FUNDED RESEARCH GRANTS AND CONTRACTS

Principal and Co-Principal Investigator

- *REU Supplement for Developing board games and learning materials to support 5th grade students' connected learning around computational thinking and coding*, Victor Lee (PI), Mimi Recker, Jody Clarke-Midura (co-PIs), National Science Foundation, \$24,000, 1/2019-12/2020.
- *Developing board games and learning materials to support 5th grade students' connected learning around computational thinking and coding*, Victor Lee (PI), Mimi Recker, Jody Clarke-Midura (co-PIs), National Science Foundation, \$300,000, 2019-2021.
- *Collaborative Research: Using a School-Based Sensing Platform and Targeted Teacher Professional Development to Support Computational Thinking Integration and Student Learning*, Mimi Recker (PI), National Science Foundation, \$209,000 (\$2.4 million total), 2017-2020. Collaborative with University of Colorado, Boulder (Sumner, Penuel, PI).
- *Supporting The Development Of Public And School Librarians As Stewards Of Cross-Setting STEM Maker Programs*, Institute for Museum and Library Services, \$471,399, 07/01/2016-06/30/2020. Role: Co-PI
- *Canvalytics*. Andrew Walker (PI), Mimi Recker (PI), Kyumin Lee (Co-PI), John Louviere (CoPI), Utah State University \$35,000, 2016.
- *Collaborative Research: Understanding Impact: A Scaling and Replication Study of the Curriculum Customization Service*. Mimi Recker (PI), Victor Lee (Co-PI), Andrew Walker (Co-PI), National Science Foundation, \$125,000, 2011-2014.
- *The Last Mile*. M. Recker (PI), A. Walker (Co-PI). National Science Foundation, NSDL program, \$150,000, 2009-2013.
- *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), National Science Foundation, DUE program, September, 2008-June, 2009, \$90,000.
- *Collaborative Research: Educational Data Mining Approaches for Digital Libraries*. M. Recker (PI). National Science Foundation, NSDL program, \$75,000, 2008-2010. A collaborative with the Exploratorium Museum, San Francisco, CA.
- *DLConnect Supplement*. M. Recker (PI). National Science Foundation, DUE program, \$52,236, 2008-10.
- *Advancing Collaborative Learning Pedagogy with Team Learning Systems*. Gusti Ngurah Darmawan (PI), M. Recker (Co-PI). University of Adelaide Grant, A\$25,000, 2007.
- *Project Tomorrow Supplement*. M. Recker (PI), K. Howe (CoPI, UCAR). National Science Foundation, \$130,000, 2006-2007.
- *Digital Libraries go to School*. M. Recker (PI), K. Howe (CoPI, UCAR). National Science Foundation, \$361,200, 2006-2010.

- *DLConnect: Connecting underserved teachers and students with NSDL learning resources and tools*. M. Recker (PI), J. Dorward (CoPI). National Science Foundation, \$364,000, 2004-2010.
- *Integrating and Extending the Instructional Architect*, M. Recker, PI, J. Dorward, CoPIs. National Science Foundation, \$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. M. Recker, PI. Co-PI: J. 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, M. Recker, PI, 2000-2001, \$15,000.
- *Networked learning communities: Building infrastructure and evaluating impact*, M. Recker, (PI), John Greenwood and Peter Stevens (Co-PI). 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.

Senior Staff/Consultant/Advisory Board

- CLASSII Advisory Board, a grant from IMLS to the American Association of School Librarians, a division of the American Library Association, 2015-2018.
- Member, National Science Foundation grant advisory board, Engineering Experiences, 2015-2018.
- Consultant, CyberLearning Resource Network, SRI International, Menlo Park, Project funded by the National Science Foundation, 2011-2012.
- Member of Advisory Board, AAAS Project 2061, Washington, DC. Project funded by the National Science Foundation, 2010-2012.
- Member of Advisory Board, Concord Consortium, Boston, MA. Project funded by the National Science Foundation, 2010-2012.
- Member of Advisory Board, McClean Media, Washington, DC. Project funded by the National Science Foundation, 2009-2011.
- Member, National Science Foundation grant advisory board, Exploratorium Online: Exhibit-Based Science Learning and Teaching Digital Library, 2003-2005

- *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), 2002-2005.

PUBLICATIONS

Journal Publications

- Lee, J., & Recker, M. (2019, in press). Students' Online Discussion Patterns, Emotions, Content, and Performance in an Online Developmental Mathematics Course. *Technology, Knowledge and Learning*.
- Phillips, A., Lee, V., & Recker, M. (2019, in press). A Framework for Characterizing 21st Century School Librarianship. *School Libraries Worldwide*.
- Martiz, G. & Recker, M. (2019). Mobile Phone Use for English Language Learning in a Dominican Republic University Classroom: A Qualitative Inquiry. *Computer-Based Learning in Context*, 1(1), 14-27.
- Rogowski, A., Recker, M., & Lee, V. (2018/2019). Designing Online Support Guides for Librarians Managing STEM Maker Activities. *International Journal of Innovations in Online Education*, 2(4). doi.org/[0.1615/IntJInnovOnlineEdu.2019029566](https://doi.org/0.1615/IntJInnovOnlineEdu.2019029566)
- Yu, L., Recker, M., Chen, S., Zhao, N., & Yang, Q. (2018). The Moderating Effect of Geographic Area on the Relationship Between Age, Gender, and Information and Communication Technology Literacy and Problematic Internet Use. *Cyberpsychology, Behavior, and Social Networking*, 21(6), 367-373. <https://doi.org/10.1089/cyber.2017.0503>
- Lee, V., & Recker, M. (2018). Paper Circuits: A Tangible, Low Threshold, Low Cost Entry to Computational Thinking. *Tech Trends*, 62(2), 197-203.
- Yuan, M., & Recker, M. (2018). Does Audience Matter? Comparing Teachers' and Non-Teachers' Application and Perception of Quality Rubrics for Evaluating Open Educational Resources. *Educational Technology Research and Development*, 67(1), 39-61. <https://doi.org/10.1007/s11423-018-9605-y>
- Lee, J., Recker, M. & Canvalytics Research Group (2016). Applying Data Mining Methods to Understand User Interactions within Learning Management Systems: Approaches and Lessons Learned. *Journal of Educational Technology Development and Exchange (JETDE)* 8(2).
- Yuan, M., & Recker, M. (2015). Not All Rubrics Are Equal: A Review of Rubrics for Evaluating the Quality of Open Educational Resources. *The International Review in Open and Distance Learning*, 16(5), pp. 16-38. [<http://www.irrodl.org/index.php/irrodl/article/view/2389>]

- Ye, L., Recker, M., Walker, A., Leary, H., & Yuan, M. (2015). Expanding Approaches for Understanding Impact: Integrating Technology, Curriculum, and Open Educational Resources in Science Education. *Educational Technology Research and Development*, 63(3), 355-380. DOI: <http://link.springer.com/article/10.1007/s11423-015-9377-6>
- Yuan, M. & Recker, M. (2014). Characterizing User Behaviors and Resulting Products in an Online Educational Community: A Comparison between Novices and Elders. *Journal of Learning Analytics*, 1(3), 150-153.
[<http://epress.lib.uts.edu.au/journals/index.php/JLA/article/view/4171/4423>]
- Yuan, M. & Recker, M. (2014). Dissemination Matters: Influences of Dissemination Activities on User Types in an Online Educational Community. *International Journal of Artificial Intelligence and Interactive Multimedia*, Vol. 2(7), 22-29.
- Recker, M., Yuan, M., & Ye, L. (2014). *CrowdTeaching: Supporting Teachers as Designers in Collective Intelligence Communities*. *The International Review in Open and Distance Learning*, 15(4).
- Lee, V. R., Leary, H. M., Sellers, L., & Recker, M. (2014). The role of school district science coordinators in the district-wide appropriation of an online resource discovery and sharing tool for teachers. *Journal of Science Education and Technology*, 23(3), 309-323. doi: 10.1007/s10956-013-9465-5
- Recker, M., Yuan, M., & Ye, L. (2013). *CrowdTeaching: Supporting Teacher in Collective Intelligence Communities*. *Educational Technology Magazine*, 53(6), 18-24.
<http://www.jstor.org/stable/44430212>
- Xu, B., Recker, M., Qi, X., Flann, N., & Ye, L. (2013). Clustering Educational Digital Library Usage Data: A Comparison of Latent Class Analysis and K-Means Algorithms. *Journal of Educational Data Mining*, 5(2), 38-68.
- Recker, M., Sellers, L., & Ye, L. (2013). Teacher Design Using Online Learning Resources: A Comparative Case Study of Science and Mathematics Teachers. *Education Research International*, 13, Article ID 243248. <http://dx.doi.org/10.1155/2013/243248>
- Ye, L., Walker, A., Recker, M., Robertshaw, M. B., Sellers, L., & Leary, H. (2012). Designing for problem-based learning: A comparative study of technology professional development. *US-China Education Review B*, 5, 510-520.
- Xu, B., & Recker, M. (2012) Teaching Analytics: A Clustering and Triangulation Study of Digital Library User Data. *Educational Technology & Society Journal*, 15(3), 103-115.
- Walker, A., Recker, M., Ye, L., Robertshaw, B., Sellers, L., & Leary, H. (2012). Comparing technology-related teacher professional development designs: A multilevel study of teacher and student impacts. *Journal of Educational Technology Research and Development*, 60(3), 421-444.
- Walker, A., Recker, M., Robertshaw, B., Olsen, J., Leary, H. (2011). Integrating Technology and Problem-Based Learning: A Mixed Methods Study of Two Teacher Professional Development Approaches. *Interdisciplinary Journal of Problem-Based Learning*, 5(2).

(<http://docs.lib.purdue.edu/ijpbl/vol5/iss2/7>)

Xu, B. & Recker, M. (2011). Understanding Teacher Users of a Digital Library Service: A Clustering Approach. *Journal of Educational Data Mining*, 3(1), 1-28.

USU ITLS Faculty. (2009). What's in a name? An Identity Shift at Utah State University. *Educational Technology*, 49(4), 38-41.

Cassell, L., Holsted, 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). Modeling 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

- Biddy, Q., Chakarov, A., Jacobs, J., Penuel, W., Recker, M., & Sumner, T. (2019, in prep). Professional development supporting middle school teachers to integrate computational thinking into their science classes. In xxx (Eds.). *Preparing Teachers to Teach Computer Science: Models, Practices and Policies*.

- Vincent, H., Lee, V.R., Rogowski, A., & Recker, M., (2019, in prep). Looming Code A Model, Learning Activity, and Professional Development Approach for CS Educators. In xxx (Eds.). *Preparing Teachers to Teach Computer Science: Models, Practices and Policies*.
- Rogowski, A., Lee, V., & Recker, M., (2019, in prep). In Support of Making in Libraries rather than Makerspaces: Rethinking the (Maker)space for Rural Libraries. In M. Melo and J. Nichols (Eds.). *Re-making the Library Makerspace: Critical Theories, Reflections, and Practices*. Library Juice Press.
- Lee, V., Recker, M., & Rogowski, A. (2019, in press). Researchers or Service Providers? A case of renegotiating partnership in a research-practice partnership. In T. Ruecker and V. Svihla (Eds.), *Research, Interrupted: Confronting and Overcoming Challenges in Education Research*. Routledge.
- Blair, P., Recker, M., & Glomb, N. (2018). A case study of special educator professional development in a virtual world. In Robert C. Branch (Ed.) *Educational Media and Technology Yearbook 41*, (pp. 25-39). New York, NY: Springer.
- Phillips, A. L., Lee, V. R., & Recker, M. (2018). Small Town Librarians as Experience Engineers. In V. R. Lee & A. L. Phillips (Eds.), *Reconceptualizing Libraries: Perspectives from the Information and Learning Sciences* (pp. 158-169). New York, NY: Routledge.
- Phillips A.L., Lee, V.R., Recker M.M. (2018). Supporting School Librarian Learning: New Opportunities for Instructional Technology Collaboration with School Librarians. In Branch R. (Ed) *Educational Media and Technology Yearbook. Educational Media and Technology Yearbook*, 41 (pp 53-61). New York, NY: Springer.
- Lee, J. & Recker, M. (2018). What do studies of learning analytics reveal about learning and instruction: A systematic literature review. In Natividad, G. & Ilgaz, H. (Eds.), *Learning, Design, and Technology: An International Compendium of Theory, Research, Practice and Policy* (pp. 1-37). New York: Springer. doi:10.1007/978-3-319-17727-4_116-1.
- Recker, M. & Sumner, T. (2018). Teacher Learning and Technology. In F. Fischer, C. Hmelo-Silver, S. Goldman & P. Reimann (Eds.), *International Handbook of the Learning Sciences*, (pp. 267-275). Routledge/Taylor & Francis.
- Recker, M. (2017). Open Educational Resources. In K. Peppler (Ed.), *The SAGE encyclopedia of Out-Of-School Learning* (pp. 556-564). Thousand Oaks, CA: Sage Publications, Inc.
- Recker, M. & Lee, J. (2016). Analyzing Learner and Instructor Interactions within Learning Management Systems: A Review of Approaches. In J. M. Spector, B. Lockee and M. Childress (Eds.), *Learning, Design, and Technology. An International Compendium of Theory, Research, Practice, and Policy* (pp. 1-23). New York: Springer. Available: http://link.springer.com/referenceworkentry/10.1007/978-3-319-17727-4_7-1
- Recker, M., (2016). Approaches for technology teacher professional development: The Case of the Instructional Architect. In T. Norton (Ed.), *Professional Development: Recent*

Advances and Future Directions (pp. 155-172). New York: Nova. Available:
http://www.novapublishers.com/catalog/product_info.php?products_id=58292

- Lee, V. R., Yuan, M., Ye, L., & Recker, M. (2016). Reconstructing the influences on and focus of the Learning Sciences from the field's published conference proceedings. In M. A. Evans, M. J. Packer & R. K. Sawyer (Eds.), *Reflections on the Learning Sciences* (pp. 105-125). Oxford: Cambridge University Press. Available:
<http://www.cambridge.org/us/academic/subjects/psychology/educational-psychology/reflections-learning-sciences>
- Yuan, M., Recker, M., & Diekema, A. R. (2015). Do rubrics help? An exploratory study of teachers' perception and use of rubrics for evaluating open educational resource quality. In D. Slykhuis & G. Marks (Eds.), *Research Highlights in Technology and Teacher Education* (pp. 1424-1432). *SITE/AACE*. Available: <http://www.editlib.org/p/150191/>
- Recker, M. (2015). Cyberinfrastructure capabilities and limitations. In J. M. Spector (Ed.) *The SAGE encyclopedia of educational technology*. (Vols. 1-2, pp. 164-166). Thousand Oaks, CA: Sage. Available: <http://knowledge.sagepub.com/view/the-sage-encyclopedia-of-educational-technology/SAGE.xml?rskey=encFyt&row=9>
- Diekema, A. & Recker, M. (2014). Studying Educational Digital Library Users: Emerging Research Methodologies. In M. Khosrow-Pour (Ed.), *Encyclopedia of Information Science and Technology* (pp. 242-250). Hershey, PA: IGI Global.
- Leary, H., Giersch, S., Walker, A., & Recker, M. (2011). Developing and Using a Guide to Assess Learning Resource Quality in Educational Digital Libraries. In Kuo Hung Huang (Ed.), *Digital Libraries - Methods and Applications* (pp. 181-196). InTech (ISBN: 978-953-307-203-6, Available from: <http://www.intechopen.com/articles/show/title/developing-and-using-a-guide-to-assess-learning-resource-quality-in-educational-digital-libraries>)
- Xu, B., Recker, M., & Hsi, S. (2010). The Data Deluge: Opportunities for Research in Educational Digital Libraries. In C. Evans (Ed). *Internet Issues: Blogging, the Digital Divide and Digital Libraries* (pp. 95-116). Hauppauge, NY: Nova Science Publishers.
- Robertshaw, M.B., Walker, A., Recker, M., Leary, H. & Sellers, L. (2010). Experiences in the field: The evolution of a teacher technology professional development model. In Myint Swe Khine & Issa M. Saleh (Eds.), *New science of learning: Cognition, computers, and collaboration in education* (pp. 307-324). New York: Springer.
- Robertshaw, B., Leary, H., Walker, A., Bloxham, K., & Recker, M. (2009). 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. 280-297). 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. 101-121). 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

- Chakarov, A., Recker, M., Jacobs, J. & Sumner, T. (2019). Designing Middle School Science Curriculum that Integrates Computational Thinking and Sensor Technology. In *Proceedings of ACM Technical Symposium on Computer Science Education* (pp. 818-824). ACM.
DOI: [10.1145/3287324.3287476](https://doi.org/10.1145/3287324.3287476)
- Lee, V. R., Recker, M., & Phillips, A. (2018). Conjecture Mapping the Library: Iterative Refinements Toward Supporting Maker Learning Activities in Small Community Spaces. In *Proceedings of the International Conference of the Learning Sciences (ICLS)* (pp. 320-327). International Society of the Learning Sciences.
- Phillips, A., Lewis, W., Lee, V., Hansen, J., & Recker, M. (2017, October). Bringing Making to Rural and Small Libraries: Design Hypotheses for Youth Maker Program Development. In *Proceedings of 2017 Digital Media and Learning Conference*, Irvine, CA.
- Lee, V. R., Lewis, W., Searle, K. A., Recker, M., Hansen, J., & Phillips, A. L. (2017). Supporting interactive youth maker programs in public and school libraries: Design hypotheses and first implementations. In P. Blikstein & D. Abrahamson (Eds.), *Proceedings of IDC 2017* (pp. 310-315). ACM.
- Phillips, A., Lee, V. R., Hansen, J. & Recker, M. (2017). Librarians in transition: Investigating CSCL potentials within the school library. In Brian K. Smith, Marcela Borge, Emma Mercier, and Kyu Yon Lim (Eds.), *Proceedings of Making a Difference: Prioritizing Equity and Access in CSCL, 12th International Conference on Computer Supported Collaborative Learning (CSCL) 2017, Volume 1*. Philadelphia, PA: International Society of Learning Sciences.
- Lee, J., Recker, M., Bowers, A., & Yuan, M. (2016). Hierarchical Cluster Analysis Heatmaps and Pattern Analysis: An Approach for Visualizing Learning Management System Interaction Data. In *Proceedings of the 9th International Conference on Educational Data Mining (EDM 2016)* (pp. 603-604). ACM.

- Canvalytics Research Group. (2016). Exploring Learning Management System Interaction Data: Combining Data-driven and Theory-driven Approaches. In *Proceedings of the 9th International Conference on Educational Data Mining (EDM 2016)* (pp. 324-329). ACM.
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Other publications

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Reports

Lee, J. & Recker, M. (2017). Measuring Students' Use of Self-Regulated Learning Strategies from Learning Management System Data: An Evidence-Centered Design Approach, Analytics for Learning (A4L) Network White Paper Series, <http://improvement-analytics.org/a4l-network/a4l-white-papers/>

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*.
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- 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).
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- 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 papers and presentations

Recker, M. (2019, May). SchoolWide Lab. Invited poster at Capitol hill event for the Coalition for the National Science Foundation, Washington DC.

Chakarov, A., Recker, M., Jacobs, J. Sumner, T., Spiris., S., Van Horne, K., & Penuel, W. (2019, April). *Designing Sensor-Based Science Units that Incorporate Computational Thinking*. Paper presented at the American Educational Research Association Conference, Toronto, Canada.

Rogowski, A., Phillips, A., Lee, V., & Recker, M., &. (2019, April). *Design Capacity for Informal Learning within Schools: An Analysis of School Librarians and Maker Activities*. Paper presented at the American Educational Research Association Conference, Toronto, Canada.

Lee, J. Recker, M., & Yuan, M. (2019, April). *Examining the Validity and Instructional Value of a Rubric for Evaluating Online Course Quality*. Paper presented at the American Educational Research Association Conference, Toronto, Canada.

Rogowski, A., Lee, V., & Recker, M. (2019, March). *STEM in the Library: Tips & Tricks to get Started*. Paper presented at UELMA, Salt Lake City, UT.

Rogowski, A., Lee, V., & Recker, M. (2019, March). *Making in the Library: Tools & Resources for the School Librarian*. Session presented at UCET, Salt Lake City, UT.

Rogowski, A., Lee, V., & Recker, M. (2019, May). *Meaningful Making: Bridging STEM & Teen Programming*. Paper presented at Utah Library Association Annual Conference (ULA), Salt Lake City, UT.

Lee, V. et al. (2019, February). *TableTop Board Games to Screens*. Poster presented at SIGCSE, Minneapolis, MN.

Chakarov, A., Recker, M., Jacobs, J. & Sumner, T., Miller, C., & Hammrich, T. (2019, February). *SchoolWide Labs*. Poster presented at SIGCSE, Minneapolis, MN.

Chakarov, A., Recker, M., Jacobs, J. & Sumner, T. (2019, February). *Designing Middle School Science Curriculum that Integrates Computational Thinking and Sensor Technology*. Paper presented SIGCSE, Minneapolis, MN.

Recker, M. (2019, February). *CS for Pre K8 - Theory and Practice Supporting Broadening Participation*. Invited plenary presented at the RESPECT/RPPforCS Conference with SIGCSE 2019, Minneapolis, MN.

- Franco, D. & Recker, M. (2018, November). *Interest-based transformative learning: An integrated framework to help undergraduate students learn mindfulness. Paper presented at the 2018 International Transformative Learning Conference, New York.*
- Lee, V., Rogowski, A., Phillips, A., & Recker, M. (2018, October). *Using a "light touch" to support middle school libraries with implementing STEM-oriented Maker activities. Paper presented at the AECT Conference, Kansas City.*
- Lee, V., Phillips, A., & Recker, M., &. (2018, August). *Educative Maker Activity Materials for Small Town Librarians to Support Connected Learning. Paper presented at 2018 Connected Learning Summit at the MIT Media Lab, Cambridge, MA.*
- Phillips, A., Rogowski, A., Lee, V., & Recker, M. (2018, May). *STEM-gearred Making for teens in the library. Poster presented at Utah Library Association Annual Conference, Orem, UT.*
- Recker, M. (2018, April). *Making and makerspaces. Invited presentation at SouthWest University, Chongqing, China.*
- Lee, V., Recker, M., & Phillips, A. (2018, April). *An Asset-Based Framework for Youth Maker programs in Libraries. Paper presented at the American Educational Research Association Conference, NY, NY, US.*
- Lee, J. & Recker, M. (2018, April). *Exploring Relationships between Students' Discussion Patterns, Emotions and Learning Outcomes in an Online Mathematics Course. Paper presented at the American Educational Research Association Conference, New York, NY, US.*
- Phillips, A., Rogowski, A., Lee, V., & Recker, M. (2018, March). *STEM-Gearred Making for the Busy Librarian. Poster presented at Utah Library Association Annual Conference (ULA), Salt Lake City, UT.*
- Lee, J. & Recker, M. (2018, February). *An Analysis of Students' Discussion Patterns, Emotions, and Learning Outcomes in an Online Mathematics Course. Poster presented at the bay area learning analytics conference 2018 (BayLAN), Berkeley, CA.*
- Hansen, J., Phillips, A., Lee, V., & Recker, M. (2017, May). *Makerspaces and school libraries: From librarianship practices to implementation strategies. Paper presented at Utah Library Association Annual Conference, Salt Lake City, UT.*
- Lee, J. & Recker, M. (2017, April). *Examining Students' Self-Regulated Learning Strategies Using Learning Management System Data: An Evidence-Centered Design Approach. Paper presented at the American Educational Research Association Conference, San Antonio, TX, US.*
- Hong, W. & Recker, M. (2016, October). *Prediction of Dropout Behaviors in Online Learning using a Cross-classified Random Effect Model (CCREM). Paper presented at the Association for Educational and Communication Technology annual conference, Las Vegas, NV, USA.*

- Lee, J. & Recker, M. (2016, October). *The Validity, Reliability, and Utility of a Rubric for Evaluating Online Course Quality: An Empirical Study*. Paper presented at the Association for Educational and Communication Technology annual conference, Las Vegas, NV, USA.
- Yuan, M. & Recker, M. (2016). Does Audience Matter? Paper presented at the American Educational Research Association Conference, Washington, DC, US.
- Canalytics Research Group (2016). Applying Data Mining Methods to Understand User Interactions within Learning Management Systems: Approaches and Lessons Learned. Paper presented at the American Educational Research Association Conference, Washington, DC, US.
- Hong, W. & Recker, M. (2016). *Different Patterns of Use of LMS and Predictors of Final Grade by Course Modality*. Paper presented at the American Educational Research Association Conference, Washington, DC, US.
- Yuan, M., and Recker, M. (2015, April). *Not All Rubrics Are Equal: A Review of Rubrics for Evaluating the Quality of Open Educational Resources*. Paper presented at the American Educational Research Association Conference, Chicago, IL, US.
- Ye, L., Leary, H., Yuan, M., Walker, A., and Recker, M. (2014, April). *Expanding Approaches for Understanding Impact: Integrating Technology, Curriculum, and Online Resources in Science Education*. Paper presented at the American Educational Research Association Conference, Philadelphia, PA, US.
- Leary, H., Lee, V., & Recker, M. (2014, April). *A "Use Diffusion" Perspective on Teachers' Adoption and Use of a Social Teaching Platform*. Paper presented at the American Educational Research Association Conference, Philadelphia, PA, US.
- Sellers, L., Recker, M., Lee, V., & Sumner, T. (2013, October). *A Tale of Two Teachers: An Exploratory Study of Internet Resource Use*. Roundtable presentation at the Association for Educational Communications and Technology International Convention, Anaheim, CA.
- Ye, L., Walker, A., Recker, M., Leary, H., Devaul, H., Butcher, K., & Sumner, T. (2013, April). *Integrating Technology, Curriculum, and Online Resources: A Multilevel Model Study of Impacts on Science Teachers and Students*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Lee, V., Leary, H., Sellers, L., Recker, M., Olsen, M. (2013, April). *Examining the Role of District Science Coordinators in the Implementation of a Web-based Lesson-planning Tool*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA
- Recker, M., Yuan, M., Ye, L., Qiao, H., Sellers, L. (2013, April). *CrowdTeaching: Supporting Teachers as Designers*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.

- Sellers, L., Leary, H., Olsen, M., Lee, V., Recker, M., Sumner, T. (2013, April). *Understanding Why Teachers Opt In or Out of Using a Curriculum Planning Tool*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Lee, V., Recker, M., & Sumner, T. (2013, February). *Variable Appropriate of an Online Resource Sharing Tool*. Paper presented at the CSCW & Education Workshop, San Antonio, Tx.
- Yuan, M. & Recker, M. (2012, November). *Research on automated quality indicators of Instructional Architect projects designed by teachers*. Paper presented at 2012 AECT International Convention on Learning in the Age of Globalization, Louisville, KY.
- Hsi, S., Diekema, A., Xu, B., & Recker, M. (2012, April). *Searching Online Science Museums: Lessons from Analyzing Queries to a Digital Library*. Paper presented at the Museums and the Web Conference, San Diego, CA.
- Walker, A., Recker, M., Ye, L., Sellers, L., Robertshaw, B., & Leary, H. (2012, April). *Comparing technology-related teacher professional development designs: A multilevel study of teacher and student impacts*. Paper presented at the Annual Meeting of the American Education Research Association, Vancouver, CANADA.
- Recker, M., Ye, L., Sellers, L., & Robertshaw, B. (2012, April). *Investigating Impacts of Technology-Related Teacher Professional Development Designs: A Comparative Case Study*. Paper presented at the Annual Meeting of the American Education Research Association, Vancouver, CANADA.
- Recker, M. (2012, March). *Quality of Online Resources*. Paper presented at the National Association of Research on Science Teaching, Indianapolis, IN.
- Leary, H., Recker, M., Walker, A., Sumner, T. (2011, October). *Automating Quality Assessments for Open Educational Resources*. Paper presented at the Open Education Conference, Park City, UT.
- Sellers, L., Ye, L., Robertshaw, B., Recker, M., & Walker, A. (2011, November). *Technology Integrated Professional Development: A Case Study of Junior High Science and Mathematics Teachers*. Paper presented at the Annual Meeting of the Association for Educational Communications Technology, Jacksonville, FL.
- Walker, A., Recker, M., Robertshaw, B., Olsen, J., Sellers, L., Leary, H., Kuo, Y., & Ye, L. (2011, April). *Designing For Problem Based Learning: A Comparative Study Of Technology Professional Development*. Paper presented at the Annual Meeting of the American Education Research Association, New Orleans, LA.
- Recker, M., Leary, H., Walker, A., Diekema, A., Wetzler, P., Sumner, T., & Martin, J. (2011, April). *Modeling Teacher Ratings of Online Resources: A Human-Machine Approach to Quality*. Paper presented at the Annual Meeting of the American Education Research Association, New Orleans, LA.
- Xu, B. & Recker, M. (2010, November). *Understanding Teacher Users of an Educational Digital Library Service: Combining Online Usage Patterns with User Profiles*. Presented at

- the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Recker, M & Walker, A. (2010, November). *Designing For Inquiry Learning: A Comparative Study of Technology Professional Development*. Presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Lightle, K., McLean, L., Recker, M. Sicker, T. (2010, November). *Untethering Your Assets: Issues to Consider When Cutting the Ropes*. Presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Xu, B., Recker, M., & Hsi, S. (2010, April). *The Data Deluge: Opportunities in Complex Information Ecologies*. Paper presented at the Annual Meeting of the American Education Research Association, Denver, CO.
- Walker, A., Recker, M., Robertshaw, B., Leary, H. (2010, April). *Incorporating Technology and Problem-Based Learning: Professional Development for K-12 Teachers*. Paper presented at the presented at the Annual Meeting of the American Education Research Association, Denver, CO.
- Walker, A., Robertshaw, B., & Recker, M. (2010, April). *Problem-Based Design: A Technology-Oriented Teacher Professional Development Model*. Paper presented at the presented at the Annual Meeting of the American Education Research Association, Denver, CO.
- Recker, M. & Xu, B. (2010, February). *An Overview of Educational Data Mining*. Invited talk presented at the University of Utah, Salt Lake City, UT.
- Recker, M. & Walker, A. (2009, November). *Digital Libraries go to School*. Poster presented at the National Science Foundation DRK-12 Annual Meeting, Washington, D.C.
- Recker, M. , Xu, B., & Hsi, S. (2009, November). *Educational Data Mining*. Poster presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Recker, M. & Walker, A. (2009, November). *Integrating NSDL Resources and Inquiry Learning: A Professional Development Model for Teachers*. Poster presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Recker, M. (2009, November). *Recommender Systems, Contextualization and Personalization in NSDL: Current and Future Research Directions*. Invited panel presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Recker, M., Xu, B., & Palmer, B. (2009, November). *Diving into Data: Web Metrics and Educational Data Mining to Evaluate Digital Libraries*. Paper presented at the National Science Foundation National STEM Digital Library Annual Meeting, Washington, D.C.
- Recker , M. (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, M. (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.
- Palmer, B., Xu, B., & Recker, M. (2008, September). *Beyond Web Metrics: Data Mining in Open Education*. 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 OZCHI96 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 & Learning Sciences, 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.

Post-doctoral Fellow Advising
David Wiley, 2000-2001.

Doctoral Student Advising (Chair)

Ji-Eun Lee (Ph.D. Instructional Technology & Learning Sciences, TBD, Utah State University). Advisor.

Dhanna Joana Franco (Ph.D. Instructional Technology & Learning Sciences, TDB, Utah State University). Advisor.

Peter Blair (Ph.D. Instructional Technology & Learning Sciences, May 2017, Utah State University). Advisor.

Min Yuan (Ph.D. Instructional Technology & Learning Sciences, December 2015, Utah State University). Advisor.

Gisela Martiz (Ph.D. Instructional Technology & Learning Sciences, August 2015, Utah State University). Advisor.

Brooke Robertshaw (Ph.D. Instructional Technology & Learning Sciences, August 2013, Utah State University). Advisor.

Lei Ye (Ph.D. Instructional Technology & Learning Sciences, August 2013, Utah State University). Advisor.

Bart Palmer (Ph.D. Instructional Technology & Learning Sciences, May 2012, Utah State University). Advisor.

Beijie Xu (Ph.D. Instructional Technology & Learning Sciences, May 2011, Utah State University). Advisor.

Kristy Bloxham (Ph.D. Instructional Technology & Learning Sciences, December 2010, Utah State University). Advisor.

Delroy BRINKERHOFF (Ph.D. Instructional Technology & Learning Sciences, August 2010, Utah State University). Advisor.

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.

Stacie Gomm (Ph.D. Instructional Technology, August 2004, Utah State University). Advisor.

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

Doctoral Student Advising (Committee member)

Sterling Morris (Ph.D. Instructional Technology & Learning Sciences, TBD) Member of Committee.

Alexandra Chakarov (Ph.D. Computer Science, University of Colorado, Boulder, TBD) Member of Committee.

Katarina Pantic (Ph.D. Instructional Technology & Learning Sciences, TBD) Member of Committee.

Ryan Cain (Ph.D. Instructional Technology & Learning Sciences, TBD) Member of Committee.

Marcus Scott (Ph.D. Math and Statistics, May 2018), Member of Committee.

Patrick Seegmiller (Ph.D. Math & Stats, TDB, Utah State University). Member of Committee.

Jeffrey Thayne (Ph.D. Instructional Technology & Learning Sciences, May 2017) Member of Committee.

Scott Smith (Ph.D. Instructional Technology & Learning Sciences, May 2017) Member of Committee.

Jiangyue Gu (Ph.D. Instructional Technology & Learning Sciences, May 2016) Member of Committee.

Heather Leary (Ph.D. Instructional Technology & Learning Sciences, May 2013, Utah State University). Member of Committee.

Mischy Dumont (Ph.D. Instructional Technology & Learning Sciences, August 2013, Utah State University). Member of Committee.

Jon Scoresby (Ph.D. Instructional Technology & Learning Sciences, May 2011, Utah State University). Member of Committee.

Quan Wei (Ph.D. Instructional Technology & Learning Sciences, May 2010, Utah State University). Member of Committee.

Gulfidan Can (Ph.D. Instructional Technology & Learning Sciences, May 2009, Utah State University). Member of Committee.

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.

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

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.

EdS. And M.S. Student Advising (thesis)

Whitney Lewis (MS, ITLS, May 2018, Utah State University). Member.

Jenny Hansen (MS, ITLS, May 2018, Utah State University). Advisor.

Zhiling Liu, Linda, Sellers, Hui Qiao, EdS, Instructional Technology & Learning Sciences, 2014, Utah State University. Advisor.

Beijie Xu. (M.S., Computer Science, May 2011, Utah State University). Member of committee.

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)

Tressa Haderlie, (M.S. Instructional Technology & Learning Sciences, 2014, Utah State University). Advisor.

Janet Witcher, JaNae Berg (M.Ed. Instructional Technology & Learning Sciences, 2012, Utah State University). Advisor.

Gentri Green, (M.S. Instructional Technology & Learning Sciences, 2011, Utah State University). Advisor.

Jodi Lunt (M.Ed., Instructional Technology, 2010, Utah State University). Advisor.

Brad Larsen (M.Ed., Instructional Technology, 2010, Utah State University). Advisor.

Jared Bertnowksi (M.Ed., Instructional Technology, 2009, Utah State University). Advisor.

Richard Gittens, Bonita Richins (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

- Invited to present her research at the Rayburn House on Capitol Hill in Washington DC in April as part of the [Coalition for National Science Funding](#) annual exhibition, April 2019
- Departmental Mentor of the Year Award 2019
- Outstanding Reviewer for 2018 for the *American Educational Research Journal*.
- Department lifetime achievement award, 2018
- Utah State University Mentor of the Year, 2013
- Departmental Researcher of the Year Award, 2012
- Fulbright Specialist Program, 2011
- 2010 nominee for the Association for Educational Communications and Technology (AECT) Distinguished Development Award.
- 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. *Third 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 (National and International)

- Associate Editor, *American Education Research Journal*, 2018-present
- Member of Editorial Board, *Information and Learning Sciences*, 2018-present
- National Science Foundation panel review, 2000 - present
- Member of Editorial Board, *American Education Research Journal*, 2016-present
- Member of Editorial Board, *Educational Technology Research and Development (ETR&D)*, 2010-present.
- 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-present.
- Invited presenter at the Capitol Hill event for the Coalition for National Science Funding, April 2019.
- Member of the Program Committee member for RESPECT 2019 with SIGCSE 2019.
- Member of the Program Committee for ICLS 2018, London, U.K., July, 2018.
- Member of the Program Committee for the IEEE International Conference on Advanced Learning Technologies (ICALT2018), Mumbai, July, 2018.
- Member of the Program Committee for the 4th International Workshop on Educational Recommender Systems (EdRecSys 2017) in conjunction with the 25th Conference on User Modeling, Adaptation and Personalization, July, 2017, in Bratislava, Slovakia.
- Member of the Program Committee for the IEEE International Conference on Advanced Learning Technologies (ICALT2017), Romania, July, 2017
- Invited member to “OER Research Convening”, sponsored by the US Department of Education, NSF, and IMLS, June 2016
- Member of the Program Committee for the IEEE International Conference on Advanced Learning Technologies (ICALT2016), Austin, Tx, July, 2016
- Member of the Program Committee for ICLS 2016, Singapore, July, 2016.
- Member of the Program Committee for the IEEE International Conference on Advanced Learning Technologies (ICALT2015), Taiwan, Taipei, July, 2015.
- Scientific Committee of the International Workshop on Learning Analytics (IWLA 2013), under the auspices of the 13th IEEE International Conference on Advanced Learning Technologies (July 15-18, 2013, Beijing, China).
- Member of the Program Committee for the IEEE International Conference on Advanced Learning Technologies (ICALT2014), Athens, Greece, July, 2014.
- Member of the Program Committee for the International Conference of the Learning Sciences (ICLS 2014), Boulder, CO, USA, June, 2014.
- Program committee member at the Workshop on Recommender Systems for Technology Enhanced Learning, ACM Conference on Recommender Systems, September 2012, Germany.
- Member of Editorial Board, *International Scholarly Research Network-Education*, 2010-2014.
- Program committee member of ACM Joint Conference on Digital Libraries, Ottawa, Canada, June, 2011.

- Program committee member at the Workshop on Recommender Systems for Technology Enhanced Learning, ACM Conference on Recommender Systems, September 2010, Spain.
- Program committee for IADIS International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2009).
- 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 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 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

- External Reviewer for Doctoral dissertations: University of Adelaide, Australia, and Allama Iqbal Open University, Pakistan.
- Israel Science Foundation, Reviewer, 2007.
- 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, Site reviewer, October, 2002
- 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.
- Reviewer, Annual meeting of American Education Research Association, 1999-present.

Utah State University Service

- USU Service: 2018,2019 Committee for selection CEHS Outstanding Researcher Award; 2018 USU Regents Review; English Department; 2017 CWG proposal review, 2017 Thorne research award reviewer; 2017/8 CWG Women and leadership panelist; 2001-present Member and chair, promotion and tenure committees for university faculty; CEHS safety committee; 2016-2017, 2019 ITLS search committees
- Member, College of Education Research Council, 2005-2007
- 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, University Graduate Council Committee, 2000

LANGUAGES

French.