

# Barry J. Fishman

## Curriculum Vitae

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### CURRENT POSITION

**2004-present, Associate Professor**, Learning Technologies and Educational Studies, School of Education and School of Information, University of Michigan, Ann Arbor, MI.

### EDUCATION

**Ph.D., 1996, Northwestern University**  
**Education & Social Policy—Learning Sciences.** Advisors: Louis Gomez & Roy Pea.

**M.S., 1992, Indiana University**  
**Instructional Systems Technology.** Advisor: Thomas Duffy.

**A.B., 1989, *Magna cum laude*, Brown University**  
**Honors English and American Literature.** Advisor: George Landow.

### PAST ACADEMIC POSITIONS

**2007-2008:** Visiting Associate Professor, Harvard Graduate School of Education, Harvard University, Cambridge, MA.

**1997-2004:** Assistant Professor, Learning Technologies, University of Michigan, Ann Arbor, MI.

**1996-1997:** Research Scientist, Assistant Professor, School of Education and Social Policy, Northwestern University, Evanston, IL.

### HONORS AND AWARDS

2010 Provost's Teaching Innovation Prize, University of Michigan.

2004 Council of Great City Schools Urban Impact Award (for LeTUS collaboration between Detroit and hi-ce).

2003 Evan and Helen Geib Pattishall Junior Faculty Research Award, University of Michigan.

2001 Jan Hawkins Award for Early Career Contributions to Humanistic Research and Scholarship in Learning Technologies, American Educational Research Association.

2000 Computerworld/Smithsonian Laureate (as part of hi-ce).

1994, 1993, 1992, 1991, Constance Dorothea Weinman Scholarship for Educational Technology.

1989 Phi Beta Kappa, Brown University.

1989 Ratcliffe-Hicks Award for Outstanding Work in English Literature, Brown University

## **PUBLICATIONS**

### **Refereed Journal Articles**

- Connor, C.M., Morrison, F.J., Schatschneider, C., Toste, J. Lundblom, E., Crowe, E.C., & Fishman, B. (in press). Effective classroom instruction: Implications of child characteristics by reading instruction interactions on first graders' word reading achievement. *Journal of Research on Educational Effectiveness*. DOI: 10.1080/19345747.2010.510179.
- Connor, C. M., Rice, D. C., Southerland, S. A., Canto, A., Underwood, P., Kaya, S., Fishman, B. & Morrison, F. J. (in press). Child characteristics by science instruction interactions in second and third grade and their relation to students' content-area knowledge, vocabulary and reading skill gains. *Elementary School Journal*.
- Atkins, D., Bennett, J., Seely Brown, J., Dede, C., Fishman, B., Means, B., Pea, R., Thille, C., & Williams, B. (2011). Response to the articles on the Draft 2010 National Educational Technology Plan. *E-Learning and Digital Media*, 8(2), 170-174.  
<http://dx.doi.org/10.2304/elea.2011.8.2.170>
- Connor, C.M., Morrison, F.J., Fishman, B., Giuliani, S., Luck, M., Underwood, P. Bayraktar, A., Crowe, E.C. (2011). Testing the impact of child characteristics X instruction interactions on third graders' reading comprehension by differentiating literacy instruction. *Reading Research Quarterly*, 46(3), 189-221.
- Connor, C.M., Schatschneider, C., Morrison, F.J., Cameron Ponitz, C., Piasta, S., Coyne Crowe, E., Fishman, B., et al. (2009). Back to the future: Contrasting scientific styles in understanding reading. *Educational Researcher*, 38(7), 537-540.
- Penuel, W. R., Fishman, B., Gallagher, L., Korbak, C., & Lopez-Prado, B. (2009). Is alignment enough? Investigating the effects of state policies and professional development on science curriculum implementation. *Science Education*, 93(4), 656-677.
- Piasta, S.B., Connor, C.M., Fishman, B., & Morrison, F.J. (2009). Teachers knowledge of literacy concepts, classroom practices, and student reading growth." *Scientific Studies of Reading*, 13(3), 224-248.
- Connor, C.M., Morrison, F.J., Fishman, B., Cameron Ponitz, C., Glasney, S., Underwood, P., et al. (2009). The ISI classroom observation system: Examining the literacy instruction provided to individual students. *Educational Researcher*, 38(2), 85-99.
- Connor, C.M., Piasta, S.B., Fishman, B., Glasney, S., Schatschneider, C., Crow, E., Underwood, P., Morrison, F. (2009). Individualizing student instruction precisely: Effects of child by instruction interactions on first graders' literacy development. *Child Development*, 80(1), 77-100.
- Geier, R., Blumenfeld, P., Marx, R., Krajcik, J., Fishman, B., Soloway, E., et al. (2008). Standardized test outcomes for students engaged in inquiry-based science curricula in the context of urban reform. *Journal of Research in Science Teaching*, 45(8), 922-939.

- Penuel, W. R., Fishman, B., Yamaguchi, R., & Gallagher, L. (2007). What makes professional development effective? Strategies that foster curriculum implementation. *American Educational Research Journal*, 44(4), 921-958.
- Brunvand, S., & Fishman, B. (2007). Investigating the impact of the availability of scaffolds on preservice teacher noticing and learning from video. *Journal of Educational Technology Systems*, 35(2), 151-174.
- Connor, C. M., Morrison, F. J., Fishman, B., Schatschneider, C., & Underwood, P. (2007, January 26). Algorithm-guided individualized instruction. *Science*, 315, 464-465.
- Fogleman, J., Fishman, B., & Krajcik, J. S. (2006). Sustaining innovations through lead teacher learning: A Learning Sciences perspective on supporting professional development. *Teaching Education*, 17(2), 181-194.
- Fishman, B., Marx, R., Blumenfeld, P., Krajcik, J. S., & Soloway, E. (2004). Creating a framework for research on systemic technology innovations. *Journal of the Learning Sciences*, 13(1), 43-76.
- Marx, R. W., Blumenfeld, P., Krajcik, J. S., Fishman, B., Soloway, E., Geier, B., et al. (2004). Inquiry-based science in the middle grades: Assessment of learning in urban systemic reform. *Journal of Research in Science Teaching*, 41(10), 1063-1080.
- Fishman, B., Marx, R., Best, S., & Tal, R. (2003). Linking teacher and student learning to improve professional development in systemic reform. *Teaching and Teacher Education*, 19(6), 643-658.
- Fishman, B., & Krajcik, J. (2003). What does it mean to create sustainable science curriculum innovations? *Science Education*, 87(4), 564-573.
- Kafai, Y. B., Fishman, B., Bruckman, A. S., & Rockman, S. (2002). Models of educational computing @ home: New frontiers for research on technology in learning. *Educational Technology Review*, 10(2), 52-68.
- Kupperman, J., & Fishman, B. (2002). Academic, social, and personal uses of the Internet: Cases of students from an urban Latino classroom. *Journal of Research on Technology in Education*, 34(2), 189-215.
- Fishman, B., & Pinkard, N. (2001). Bringing urban schools into the information age: Planning for technology vs. technology planning. *Journal of Educational Computing Research*, 25(1), pp. 63-80.
- Fishman, B., Kupperman, J., Marx, R., & Soloway, E. (2001). Linking urban Latino families to school using the web. *Journal of Educational Computing Research*, 25(1), pp. 35-49.
- Blumenfeld, P., Fishman, B., Krajcik, J., Marx, R., & Soloway E. (2000). Creating usable innovations in systemic reform: Scaling up technology-embedded project-based science in urban schools. *Educational Psychologist*, 35(3), pp. 149-164.
- Fishman, B. (2000). How activity fosters CMC tool use in classrooms: Re-inventing tools in local contexts. *Journal of Interactive Learning Research*, 11(1), 3-27.
- Fishman, B. (1999). Characteristics of students related to computer-mediated communications activity. *Journal of Research on Computing in Education*, 32(1), 73-97.

- Gomez, L., Fishman, B., & Pea, R. (1998). The CoVis Project: Building a large scale science education testbed. *Interactive Learning Environments*, 6(1-2), 59-92.
- Gordin, D., Gomez, L., Pea, R., & Fishman, B. (1996). Using the World Wide Web to build learning communities in K-12. *The Journal of Computer-Mediated Communication*, 2(3), <http://www.usc.edu/dept/annenberg/vol2/issue3/gordin.html>. [On-line Journal].
- McMahon, T., Carr, A., & Fishman, B. (1993). Hypermedia and constructivism: Three approaches to enhanced learning. *The Journal of Hypermedia and Multimedia Studies*, 3(2), 5-10.
- (Re-printed in Braun, J., White, C., & Fernlund, P., (1998) *Technology tools in the social studies curriculum*, Wilsonville, OR: Franklin, Beedle, & Associates, pp. 267-275.)
- Fishman, B., & Duffy, T. (1992). Classroom restructuring: What do teachers really need? *Educational Technology Research and Development*, 40(3), 95-111.

### **Book Chapters**

- Kubitskey, B., Fishman, B., Johnson, H., Mawyer, K., & Edelson, D. (in press). Curriculum aligned professional development for geospatial education. In J. MaKinster, N. M. Trautmann & M. Barnett (Eds.), *Teaching science and investigation environmental issues with geospatial technology: Designing effective professional development for teachers*: Springer.
- Connor, C. M., Fishman, B., Crowe, E., Underwood, P., Schatschneider, C., & Morrison, F. J. (in press). Third grade teachers' use of Assessment to Instruction (A2i) software and students' reading comprehension gains. In O. Korat & A. Shamir (Eds.), *Technology for literacy achievements for children at risk*. NY: Springer.
- Connor, C. M., Morrison, F. J., Fishman, B., & Schatschneider, C. (in press). Assessment and instruction connections: The implications of child X instruction Interactions effects on student learning. In J. Sabatini & E. R. Albro (Eds.), *Assessing Reading in the 21st Century: Aligning and Applying Advances in the Reading and Measurement Sciences*. Lanham, MD: R& L Education.
- Fishman, B. (2007). Fostering community knowledge sharing using ubiquitous records of practice. In R. Goldman, R. D. Pea, B. Barron & S. J. Derry (Eds.), *Video research in the Learning Sciences* (pp. 495-506). Mahwah, NJ: Erlbaum.
- Fishman, B., & Davis, E. A. (2006). Teacher learning research and the learning sciences. In R. K. Sawyer (Ed.), *The Cambridge handbook of the learning sciences* (pp. 535-550). New York: Cambridge University Press.
- Kubitskey, B., Fishman, B., Margerum-Leys, J., Fogleman, J., Brunvand, S., & Marx, R. W. (2006). Professional development and teacher learning: Using concept maps in inquiry classrooms. In M. McMahon, P. Simmons, R. Sommers, D. DeBaets & F. Crawley (Eds.), *Assessment in science: Practical experiences and education research* (pp. 107-118). Arlington, VA: NSTA Press.

- Brunvand, S., Fishman, B., & Marx, R. (2005). Moving professional development online: Meeting the needs and expectations of all teachers. In J. R. Dangel & E. M. Guyton (Eds.), *Research on alternative and non-traditional education: Teacher education yearbook XIII* (pp. 205-232). Oxford, UK: Scarecrow Education.
- Fishman, B. (2005). Adapting innovations to particular contexts of use: A collaborative framework. In C. Dede, L. Honan, & L. Peters (Eds.), *Scaling up success: Lessons learned from technology-based educational innovation* (pp. 48-66). New York: Jossey-Bass.
- Fishman, B. (2003). Linking on-line video and curriculum to leverage community knowledge. In J. Brophy (Ed.), *Advances in research on teaching: Using video in teacher education* (Vol. 10, pp. 201-234). New York: Elsevier.
- Fishman, B., & Gomez, L. (2000). New technologies and the challenge for school leadership. In M. Honey & C. Shookhoff (Eds.), *The Wingspread Conference on Technology's Role in Urban School Reform: Achieving Equity and Quality* (pp. 13-21). Racine, WI: The Joyce Foundation, The Johnson Foundation, and the EDC Center for Children and Technology.
- Pea, R. D., Gomez, L. M., Edelson, D.C., Fishman, B., Gordin, D. N., & O'Neill, D. K. (1997). Science education as a driver of cyberspace technology development. In K. C. Cohen (Ed.), *Internet links for science education* (pp. 189-220). New York, NY: Plenum Press.
- Honebein, P., Duffy, T., & Fishman, B. (1993). Constructivism and the design of learning environments: Context and authentic activities for learning. In T. Duffy, J. Lowyck, & D. Jonassen, (Eds.), *The Design of Constructivist Learning Environments: Implications for Instructional Design and the Use of Technology* (pp. 88-108). Heidelberg: Springer-Verlag.

### **Refereed Proceedings Papers**

- Lin, H.-T., & Fishman, B. (2009). Scaffolding teacher adaptation by making design intent explicit. In A. Dimitracopoulou, C. O'Malley, D. D. Suthers & P. Reiman (Eds.), *Conference on Computer Support for Collaboration Learning* (Vol. 2, pp. 159-161). Rhodes, Greece: The International Society of the Learning Sciences.
- Penuel, W. R., Fishman, B. J., Gallagher, L. P., Korbak, C., & Lopez-Prado, B. (2008). The mediating role of coherence in curriculum implementation. *Proceedings of the 8<sup>th</sup> International Conference of the Learning Sciences*, Utrecht, The Netherlands: Erlbaum.
- Fishman, B., Penuel, W. R., & Yamaguchi, R. (2006). Fostering innovation implementation: Findings about supporting scale from GLOBE. In S. A. Barab, K. E. Hay & D. T. Hickey (Eds.), *Proceedings of the 7th International Conference of the Learning Sciences* (pp. 168-174). Mahwah, NJ: Erlbaum.
- Kubitskey, B., & Fishman, B. (2006). A role for professional development in sustainability: Linking the written curriculum to enactment. In S. A. Barab, K. E. Hay & D. T. Hickey (Eds.), *Proceedings of the 7th International Conference of the Learning Sciences* (pp. 363-369). Mahwah, NJ: Erlbaum.

- Lin, H.-T., & Fishman, B. (2006). Exploring the relationship between teachers' curriculum enactment experience and their understanding of underlying unit structures. In S. A. Barab, K. E. Hay & D. T. Hickey (Eds.), *Proceedings of the 7th International Conference of the Learning Sciences* (pp. 432-438). Mahwah, NJ: Erlbaum.
- Keren-Kolb, E., & Fishman, B. (2006). Using drawings and interviews to diagram entering preservice teachers' preconceived beliefs about technology integration. In S. A. Barab, K. E. Hay & D. T. Hickey (Eds.), *Proceedings of the 7th International Conference of the Learning Sciences* (pp. 328-334). Mahwah, NJ: Erlbaum.
- Geier, B., Blumenfeld, P., Marx, R., Krajcik, J. S., Fishman, B., & Soloway, E. (2004). Standardized test outcomes of urban students participating in standards and project-based science curricula. In Y. B. Kafai, W. A. Sandoval, N. Enyedy, A. S. Nixon & H. Francisco (Eds.), *Proceedings of the Sixth International Conference of the Learning Sciences* (pp. 206-213). Santa Monica, CA: Erlbaum.
- Lin, H.-T., & Fishman, B. (2004). Supporting the scaling of innovations: Guiding teacher adaptation of materials by making implicit structures explicit. In Y. B. Kafai, W. A. Sandoval, N. Enyedy, A. S. Nixon & F. Herrera (Eds.), *Proceedings of the Sixth International Conference of the Learning Sciences* (pp. 617). Santa Monica, CA: Erlbaum.
- Fishman, B., Goldman, S. R., Honey, M., Linn, M. C., & Sabelli, N. (2002). Is reform portable? A consideration of issues and strategies related to creating sustainable and scalable innovations. In P. Bell, R. Stevens & T. Satwicz (Eds.), *International Conference of the Learning Sciences* (pp. 623-627). Mahwah, NJ: Erlbaum.
- Kubitskey, B., Fishman, B., & Marx, R. (2002). Professional development, teacher learning, and student learning: Is there a connection? In P. Bell, R. Stevens & T. Satwicz (Eds.), *International Conference of the Learning Sciences* (pp. 229-236). Mahwah, NJ: Erlbaum.
- Brunvand, S., Fishman, B., Marx, R., & Maybaum, J. (2002). Teacher expectations of online professional development. In P. Bell, R. Stevens & T. Satwicz (Eds.), *International Conference of the Learning Sciences* (pp. 516-517). Mahwah, NJ: Erlbaum.
- Murray, O., Fishman, B., Gomez, L., Williams, K., & Marx, R. (2002). Enabling technology-supported reform in urban school districts: Administrators' Reform Community. In P. Bell, R. Stevens & T. Satwicz (Eds.), *International Conference of the Learning Sciences* (pp. 292-298). Mahwah, NJ: Erlbaum.
- Shrader, G., Fishman, B., Barab, S., O'Neill, K., Oden, G., & Suthers, D. (2002). Video cases for teacher learning: Issues of social and organizational design for use. In G. Stahl (Ed.), *Computer Support for Collaborative Learning: Foundations for a CSCL Community* (pp. 708-709). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Best, S., Fishman, B., Marx, R., & Foster, J. (2000). Comprehensive professional development reform efforts: Changing attitudes and practices about pedagogy and technology for science teachers with diverse needs. In D. A. Willis, J. D. Price & J. Willis (Eds.), *Society for Information Technology and Teacher Education* (pp. 1839-1844). San Diego, CA: Association for the Advancement of Computing in Education.

- Best, S., Marx, R., Fishman, B., & Peek-Brown, D. (2000). Professional development for systemic change: A strategic approach to scaling educational reform through professional development programs. In D. A. Willis, J. D. Price & J. Willis (Eds.), *Society for Information Technology and Teacher Education* (pp. 285-390). San Diego, CA: Association for the Advancement of Computing in Education.
- Fishman, B., Kupperman, J., & Soloway, E. (1998). Introducing urban Latino families to the Internet at home: Preliminary issues and trends. In A. Bruckman, M. Guzdial, J. Kolodner, & A. Ram (Eds.), *International Conference on the Learning Sciences* (pp. 105-111). Atlanta, GA: Association for the Advancement of Computing in Education.
- Fishman, B., Pinkard, N., & Bruce, C. (1998). Preparing schools for curricular reform: Planning for technology vs. technology planning. In A. Bruckman, M. Guzdial, J. Kolodner, & A. Ram (Eds.), *International Conference on the Learning Sciences* (pp. 98-104). Atlanta, GA: Association for the Advancement of Computing in Education.
- Kafai, Y., Fishman, B., Bruckman, A., Soloway, E., Rockman, S., Collins, A. (1998). Computing @ home: Expanded environments for learning mathematics, science, and programming. In A. Bruckman, M. Guzdial, J. Kolodner, & A. Ram (Eds.), *International Conference on the Learning Sciences* (pp. 11-15). Atlanta, GA: Association for the Advancement of Computing in Education.
- Fishman, B., & Gomez, L. (1997). How activities foster CMC tool use in classrooms. In R. Hall, N. Miyake, & N. Enyedy (Eds.), *Computer Support for Collaborative Learning* (pp. 37-44). Toronto, CA: Erlbaum.
- Ramamurthy, M. K., Wilhelmson, R. B., Hall, S., Plutchak, J., Sridhar, M., Fishman, B., Gordin, D., Pea, R., & Gomez, L. (1996). CoVis Geosciences Web Server: An Internet-based resource for the K-12 community, *Fifth American Meteorological Society Symposium on Education* (pp. J27-J32). Atlanta, GA: AMS.

### **Books and Book-Length Works**

- Fishman, B., & O'Connor-Divelbiss, S. (Eds.). (2000). *Proceedings of the Fourth International Conference of the Learning Sciences*. Ann Arbor, MI: Erlbaum.
- Fishman, B. (1996). *High-end high school communication: Tool use practices of students in a networked environment*. Unpublished doctoral dissertation, Northwestern University, Evanston, IL.

### **Articles and White Papers**

- Ball Anthony, A., Clark, L., Fishman, B., Chavous, T., Smalls, C., Kizzie, K., et al. (2007). *Evaluation of the Scarlett Middle School student laptop program*. Ann Arbor, MI: Ann Arbor Public Schools, Ann Arbor, MI.
- Fishman, B. (2006). It's not about the technology. *Teachers College Record*. Retrieved July 6th, 2006 from <http://www.tcrecord.org>.

- Penuel, W. R., Bienkowski, M., Gallagher, L., Korbak, C., Sussex, W., Yamaguchi, R., & Fishman, B. (2006). *GLOBE year 10 evaluation: Into the next generation*. Menlo Park, CA: SRI International.
- Margerum-Leys, J., Fishman, B., & Peek-Brown, D. (2004). Lab partners: Research university and urban district join forces to promote standards-based student learning in science. *Journal of Staff Development*, 25(4), 38-42.
- Fishman, B., & Zhang, B. (2003, July-August). Planning for technology: The link between intentions and use. *Educational Technology*, 43(4), 14-18.
- Fishman, B. (2002). What do teachers need to know? White paper prepared for the National Science Foundation REC Principal Investigators' Meeting, May 15-17, Washington, DC. Available on-line at <http://prospectassoc.com/NSF/teachers.htm>.
- Soloway, E., Norris, C., Blumenfeld, P., Fishman, B., Krajcik, J., & Marx, R. (2001, June). Handheld devices are ready at hand. *Communications of the ACM*, 44(6), 15-20.
- Soloway, E., Norris, C., Blumenfeld, P., Fishman, B., Krajcik, J., & Marx, R. (2000, December). The three Ts of elementary education. *Communications of the ACM*, 43(12), 15-19.
- Soloway, E., Norris, C., Blumenfeld, P., Fishman, B., Krajcik, J., & Marx, R. (2000, January). K-12 and the Internet. *Communications of the ACM*, 43(1), 19-23.
- Fishman, B., & Pea, R. D. (1994). The internet networked school: A policy for the future. *Technos: Quarterly of Education and Technology*, 3(1), 22-26.
- Fishman, B. (1993). Review of *Constructionism* by Harel and Papert. *Educational Technology*, 33(2), 48-50.

## **PROFESSIONAL SPEAKING**

### **Keynote Addresses**

- 2011, May. The U.S. National Educational Technology Plan: Implications for Teachers and Teaching. Keynote Address to the University of Michigan 4T Virtual Conference: Teachers Teaching Teachers about Technology.
- 2010, November. Changing the Game: Re-framing education to motivate learning and teaching. Keynote address to Traverse City Area Public Schools Future of Learning Conference, Traverse City, MI.
- 2009, October. Give the people what they need: One size PD does not fit all. Keynote address to the Exploring New Modalities for Learning Conference, Tucson, AZ.
- 2006, February. Leadership for Learning: Opportunities for and Barriers to Successful Reform Using Technology. Keynote address to the Hong Kong International Technology in Education Conference, Hong Kong SAR.
- 2003, February. Handheld learning technologies: Usable, scalable, and sustainable. Keynote address to the Anyplace Anywhere Learning Conference, Wayne County ISD, MI.



2003, April. Research amidst systemic reform: Studying teacher learning from professional development. Keynote address to the Third Annual Instructional Systems Technology Conference. School of Education, Indiana University, Bloomington, IN.

### **Honorary Addresses**

2003, October. Research amid reform: Teacher learning, leadership, and innovation usability. Evan and Helen Geib Pattishall Lecture to the University of Michigan School of Education, Ann Arbor, MI.

2002, April. Linking the Learning Sciences to systemic reform: Teacher learning, leadership, and technology. Invited address to the Annual Meeting of the American Educational Research Association in honor of Jan Hawkins. New Orleans, LA.

### **Invited Addresses**

Invited to speak at the following universities, research institutions, and conferences:

- Project Zero Future of Learning Conference, Cambridge, MA (2011, August)
- Cengage Learning, Farmington Hills, MI (2011, May)
- MIT Scheller Teacher Education Program, Cambridge, MA (2011, April)
- Institute for Media and Library Services: Web Wise Conference, Baltimore, MD (2011, March)
- University of Denver, Denver, CO (2011, March)
- Associated Alumni of the University of Michigan Board, Ann Arbor, MI (2011, January)
- International Conference on Education Research, Seoul, South Korea (2010, September)
- Ewha Women's University, Seoul, South Korea (2010, September)
- Seoul National University, Seoul, South Korea (2010, September)
- Project Zero Future of Learning Conference, Cambridge, MA (2010, August)
- Harvard University Graduate School of Education (2007, April)
- University of Pennsylvania Graduate School of Education (2007, January)
- Singapore Ministry of Education (2006, May)
- National Institute of Education, Singapore (2006, May)
- Hong Kong University (2006, February)
- SRI International (2005, March)
- The Pennsylvania State University School of Education (2005, January)
- University of Illinois at Chicago School of Education (2004, January)

- Center for the Study of Learning, Instruction, & Teacher Development at the University of Illinois at Chicago (2004, January)
- University of Utah School of Education (2003, February)
- National Science Foundation Urban Systemic Programs PI Meeting, Washington, DC (2003, November)
- Conference on Conceptualizing Scale-Up, Washington, DC (2003, November)
- Grantmakers for Education Conference in Seattle, WA (2001, October)

### **Conference and Other Presentations**

Penuel, W.R., Fishman, B., & Sabelli, N.H. (2011, April). *Developing and testing theories of implementation*. Presidential Session at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

Fishman, B., Means, B.M., Kafai, Y.B., Pellegrino, J.W., Dede, C.J., Pea, R.D., & Kator, K. (2011, April). *Inciting the social imagination: Implications of the new U.S. National Educational Technology Plan for research and reform*. Presidential Session at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

Baker, E.L., Perez, R.S., Steinkuehler, C.A., Kafai, Y.B., & Fishman, B. (2011, April). *Learning science: Computer games, simulations, and education: Learning from and building on the 2011 National Research Council Report* [discussant]. The Annual Meeting of the American Educational Research Association, New Orleans, LA.

Vath, R.J., Fishman, B., Konstantopoulos, S. (2011, April). *Leveraging teachers' activity data: Understanding learning and facilitation in online professional development*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

Kubitskey, B., Johnson, H., Vath, R.J., Fishman, B., Konstantopoulos, S. (2011, April). *Examining study attrition: Implications for experimental studies of professional development*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

Connor, C.M., Morrison, F.J., Fishman, B., Schatschneider, C., Underwood, P., & Crowe, E.C. (2011, April). *Building third graders' vocabulary: Considering the quality and amount of third grade literacy instruction*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Montreal.

Fishman, B. (2010, April). *The impact of online professional development: Developing the research proposal*. Invited workshop in session *Writing a successful NSF DRL proposal: Strategic and tips for novice and seasoned proposers*. American Educational Research Association, Denver, CO.

Connor, C. M., Morrison, F. J., Fishman, B., Schatschneider, C., Underwood, P., & Crowe, E. C. (2009, April). *First and second grade literacy skill growth: Independent and cumulative effects of Individualized Reading Instruction*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Denver, CO.

- Kubitskey, B., Vath, R., Park, G., Fishman, B. (2009, April). *Records of practice: The essential component for measuring teacher learning from professional development*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B. (2009, April). *The Impact of Online Professional Development*. In Panel *Experiments with professional development: Policy-informing research methodologies for a high-stakes world*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B., Penuel, R., Hegedus, S., et al. (2009, April). *What happens when the research ends? Factors related to the sustainability and scalability of a research-based innovation*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B., Kubitskey, B., & Marx, R. (2008, March). *Different designs, different data: A research continuum to inform scholarship on teacher knowledge and practice*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- Fogleman, J., & Fishman, B. (2008). *Building teacher leadership to foster scalability of science curriculum reform*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- Connor, C. M., Piasta, S. B., Glasney, S., Fishman, B., Underwood, P., & Morrison, F. J. (2008, March). *Improving reading instruction through reflection on observation data and collaborative professional development*. Paper presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- Connor, C., Morrison, F., Underwood, P., Fishman, B., & Schatschneider, C. (2007, July). The effect of individualized reading instruction on student reading outcomes: The results of a randomized field trial. Paper presented at the Annual Meeting of the Society for the Scientific Study of Reading, Prague, Czech Republic.
- Kubitskey, B., & Fishman, B. (2007, April). *A design for using long-term face-to-face workshops to support systemic reform*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.  
[http://hice.org/presentations/documents/Kubitskey\\_Fishman\\_AERA07.pdf](http://hice.org/presentations/documents/Kubitskey_Fishman_AERA07.pdf)
- Brunvand, S., & Fishman, B. (2007, April). *Investigating the impact of the presentation of scaffolds on preservice teacher noticing and learning from video*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.  
[http://hice.org/presentations/documents/SBrunvand\\_AERA2007.pdf](http://hice.org/presentations/documents/SBrunvand_AERA2007.pdf)
- Piasta, S.B., Connor, C.M., & Fishman, B. (2007, March). *Fostering early literacy development: Linking teacher knowledge and practice to student reading growth*. Poster presented at the Society for Research in Child Development Biennial Meeting, Boston, MA.
- Connor, C. M., Piasta, S. B., Fishman, B., & Morrison, F. J. (2007, February). *Individualizing student instruction, practice-based professional development, teachers' knowledge about language and literacy concepts, and students' reading skills*. Paper presented at the Pacific Coast Research Conference.

- Kubitskey, B., & Fishman, B. (2006, April). *Professional development design for systemic curriculum change*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Quintana, C., & Fishman, B. (2006, April). *Supporting science learning and teaching with software-based scaffolding*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Keren-Kolb, E., & Fishman, B. (2006, April). *Using drawings to draw out a preservice teacher's beliefs about technology integration*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Lin, H.-T., & Fishman, B. (2006, April). *Exploring the relationship between teachers' experience with curriculum and their understanding of implicit unit structures*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Penuel, W., Fishman, B., & Yamaguchi, R. (2006, April). *Examining the efficacy of strategies for professional development in an inquiry science program: Effects on teacher practice and program implementation*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Kubitskey, B., & Fishman, B. (2005, April). *Untangling the relationship(s) between professional development, practice, student learning and teacher learning*. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.
- Kubitskey, B., Fishman, B., & Marx, R. (2004, April). *Impact of professional development on a teacher and her students: A case study*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B. (2004, April). *The revolution will be televised*. Discussion of session "Video research in the Learning Sciences" at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B., Marx, R., Blumenfeld, P., Krajcik, J. S., & Soloway, E. (2004, April). *Creating a framework for research on systemic technology innovations*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Kubitskey, B., Fishman, B., & Marx, R. (2004, April). *Teacher learning from reform-based professional development and its impact on student learning: A case study*. Paper presented at the Annual Meeting of the National Association of Research on Science Teaching, Vancouver, Canada.
- Fishman, B., Hug, B., Honey, M., Light, D., Marx, R., & Carrigg, F. (2003, April). *Exploring the portability of reform: One district's approach to adaptation*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Murray, O., & Fishman, B. (2003, April). *Supporting urban reform with instructional technology: How one district does it*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.

- Kubitskey, B., Fishman, B., & Marx, R. (2003, April). *The relationship between professional development and student learning: Exploring the link through design research*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Brunvand, S., Fishman, B., & Marx, R. (2003, April). *Moving professional development online: Meeting the needs and expectations of all teachers*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Fishman, B., Fogleman, J., Kubitskey, B., Marx, R., Margerum-Leys, J., & Peek-Brown, D., (2003, March). *Taking charge of innovations: Fostering teacher leadership in professional development to sustain reform*. Paper presented at the Annual Meeting of the National Association of Research on Science Teaching, Philadelphia, PA.
- Fogleman, J., Marx, R., & Fishman, B. (2003, March). *Enacting standards-based inquiry oriented curriculum: Supporting conversations between teachers and developers*. Paper presented at the Annual Meeting of the National Association of Research on Science Teaching, Philadelphia, PA.
- Margerum-Leys, J., Fogleman, J., Fishman, B., Marx, R., Kubitskey, B., Brunvand, S., & Lin, Hsien-Ta. (2003, January). *Professional development for sustainability: Using collaboration to transfer ownership*. Paper presented at the annual meeting of the American Association of Colleges for Teacher Education. New Orleans, LA.
- Best, S.D., Fishman, B., Hug, B., Marx, R., Peek-Brown, D., Reynolds, J. (2002, March). *Knowledge Networks on the Web (KNOW): Online professional development for science teachers*. Paper presented at the Annual Meeting of the National Science Teachers Association. San Diego, CA.
- Fishman, B., Soloway, E., Krajcik, J., Marx, R., Blumenfeld, P. (2001, April). *Creating scalable and systemic technology innovations for urban science education*. Paper presented at the Annual Meeting of the American Educational Research Association. Seattle, WA.
- Fishman, B., & Marx, R. (2001, April). *Design research on professional development in a systemic reform context*. Paper presented at the Annual Meeting of the American Educational Research Association. Seattle, WA.
- Fishman, B., Marx, R., Bobrowsky, W., Warren, D., Merrill, W., & Best, S. (2001, April). *Knowledge Networks on the Web: An on-line professional development resource to support the scaling-up of curriculum enactment*. Paper presented at the Annual Meeting of the American Educational Research Association. Seattle, WA.
- Murray, O., Fishman, B., Gomez, L., Williams, K., & Marx, R. (2001, April). *Building a community of administrators between and within urban school districts in support of systemic reform efforts*. Paper presented at the Annual Meeting of the Annual Meeting of the American Educational Research Association. Seattle, WA.
- Fishman, B., Best, S., Marx, R., & Tal, R. (2001, March). *Fostering teacher learning in systemic reform: Linking professional development to teacher and student learning*. Paper presented at the Annual Meeting of the National Association of Research in Science Teaching. St. Louis, Missouri.

- Bobrowsky, W., Marx, R., & Fishman, B. (2001, March). *The empirical base for professional development in science education: Moving beyond volunteers*. Paper presented at the Annual Meeting of the National Association of Research in Science Teaching, St. Louis, Missouri.
- Fishman, B. (2000, November). *If we build it, can they come? The digital divide and implications for science education on the World Wide Web*. Paper presented at the Science Education on the Internet Website Developer's Conference, Salt Lake City, Utah.
- Fishman, B., Best, S., Foster, J., & Marx, R. (2000, April). *Fostering teacher learning in systemic reform: A design proposal for developing professional development*. Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Foster, J., Fishman, B., & Marx, R. (2000, April). *Multi-faceted professional development in systemic reform: A case study*. Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Fishman, B. (2000, April). *Potential and pitfalls of informal and virtual learning environments*. Invited discussion of session "Learning in virtual and informal learning environments" at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Kupperman, J., & Fishman, B. (2000, April). *Academic, social, and personal uses of the Internet: Case studies of students from an urban Latino classroom*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Krajcik, J., Marx, R., Blumenfeld, P., Soloway, E., & Fishman, B. (2000, April). *Inquiry based science supported by technology: Achievement and motivation among urban middle school students*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Krajcik, J., Marx, R., Blumenfeld, P., Soloway, E., & Fishman, B. (2000, April). *Reforming science education through university and school district collaborations*. Paper presented at the Annual Meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Marx, R., Krajcik, J., Soloway, E., Bain, R., Fishman, B., Blumenfeld, P. (2000, April). *Future directions in understanding learning in and outside the classroom*. Special Joint Symposium of AERA and NARST, New Orleans, LA.
- Fishman, B., Rich, D., Hoffman, E., Lenze, J., & Jones, T. (2000, March). *Consortium for Outstanding Achievement in Teaching with Technology (COATT): Setting and evaluating a new standard*. Paper presented at the Michigan School Testing Conference, Ann Arbor, MI.
- Fishman, B., Kupperman, J., & Soloway, E. (1999, April). *Linking urban Latino families to school using the Web: A pilot study*. Paper presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.
- Fishman, B., Carrillo, R., Soloway, E., (1999, April). *Linking families to science with affordable Internet technology*. Poster presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada

- Bouillion, L., Fishman, B., & Gomez, L. (1998, April). *Three Cases of Participatory Problem-Based Learning Through Real-Time Partnerships*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.
- Bouillion, L., Gomez, L., & Fishman, B. (1998, April). *Community Knowledge and Products: Elementary Students as Environmentalists*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.
- Hanson, K., Fishman, B., & Gomez, L. (1998, April). *Practices and Participant Structures: Linking Middle School Students and Companies in Product Research*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.
- Fishman, B., Gomez, L., Pea, R., Edelson, D., Lento, E., D'Amico, L., Gordin, D., Kwon, S., O'Neill, K., Polman, J., Shrader, G., Lachance-Whitcomb, J., & Wagner, R. (1997, March). *The CoVis Project: A National Testbed for Science Learning Reform*. Symposium held at the Annual Meeting of the National Association for Research in Science Teaching, Oak Brook, IL.
- Fishman, B. (Chair), Hoadley, C., Harasim, L., Hsi, S., Levin, J., Linn, M., Pea, R., Scardamalia, M. (1997, March). *Collaboration, Communication, and Computers: What Do We Think We Know About Networks and Learning?* Panel held at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Fishman, B. (1997, March). *Classroom Use of Computer Mediated Communication: What Matters and Why?* Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Fishman, B., Lento, E., Gomez, L., Despenza-Green, B. (1997, March). *Implementing the Internet in a Large Urban School System: A Case Study of the CoVis Project in the Chicago Public Schools*. Paper to be presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Pea, R., Gomez, L., Fishman, B., O'Neill, K. (1997, March). *Wonder meets Wisdom on the Net: The CoVis Experience*. Paper to be presented in the symposium Using Technology to Involve Students in Real Science: Perspectives from Three Projects (Barbara Means, Chair). Annual Meeting of the American Educational Research Association, Chicago, IL.
- Fishman, B. (1996, November). *Designing Networked Resources for Inquiry-Based Learning Environments*. Invited presentation to the NetTech Forum on Hypermedia, Teaching, and Technology. Scholarly Technology Group at Brown University, Providence, RI.
- Fishman, B., & Pea, R. (1996, March). *The CoVis Project: An Overview*. Invited presentation to the National Governors' Association National Education Summit. IBM Palisades Conference Center, Palisades, NY.
- Fishman, B. (1996, January). *Using Electronic Tools to Support Quality Assurance*. Invited presentation to the Illinois State Board of Education. Glenview, Illinois.
- Polman, J., & Fishman, B. (1995, April). *Electronic Communication Tools in the Classroom: Student and Environmental Characteristics as Predictors of Adoption*. Presented at the Annual Meeting of the American Educational Research Association. San Francisco, CA.

- Gordin, D., Fishman, B., and Edelson, D. C. (1995, April) *Scientific Visualization Environments for Open-ended Inquiry*. Presented as part of a symposium entitled "Using Technology to Realize the Potential of Project-Based Science Learning" at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Fishman, B. (1995, March). *High-End High School Communication: Strategies and Practices of Students in a Networked Environment*. Doctoral Consortium paper and Interactive Poster presented at the Annual Meeting of the Computer Human Interaction special interest group of the Association for Computing Machinery. Denver, CO: Association of Computing Machinery.
- Fishman, B. (1994, December). *The CoVis Testbed: Extending the Community*. Invited talk at the Research for Better Schools Conference on the Internet in Math and Science Education. Valley Forge, PA.
- Fishman, B. & D'Amico, L. (1994, June). *Which Way Will the Wind Blow? Networked Computer Tools for Studying the Weather*. Paper presented at the Conference on Educational Multimedia and Telecommunications (pp. 209-216). Vancouver, B.C.: Association for the Advancement of Computing in Education.
- Gomez, L., Fishman, B., & Polman, J. (1994, March). *Media Spaces and Their Application in K-12 and College Learning Communities*. In L. Gomez (Chair), *Media Spaces and Their Application in K-12 and College Learning Communities*. Panel conducted at the Annual Meeting of the Computer Human Interaction special interest group of the Association for Computing Machinery (pp. 185-186). Boston, MA: Association for Computing Machinery.
- Edelson, D.C., Gordin, D., Polman, J., & Fishman, B. (1994, April). *Scaffolding Student Inquiry with Collaborative Visualization Tools*. In *Next-generation computing and communications environments for learning and teaching*. Symposium conducted at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Pea, R., Edelson, D., Gomez, L., D'Amico, L., Fishman, B., Gordin, D., McGee, S., O'Neill, K., & Polman, J. (1994, April). *The CoVis Collaboratory: High School Science Learning Supported by a Broad Band Educational Network with Scientific Visualization, Videoconferencing, and Collaborative Computing*. In *Issues in computer-networking in K-12 classrooms: A progress report of four NSF testbeds*. Symposium conducted at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Fishman, B., & Duffy, T. (1992, April). *Strategic Teaching Frameworks: Hypermedia for Strategic Classroom Change*. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Fishman, B., & Welsh, T. (1992, February). *Stimulating Change in the School Environment: Determining the Needs of Individual Practitioners for Hypermedia Intervention*. Paper presented at the Annual Meeting of the Association for Educational Communications and Technology, Washington, D.C.
- Duffy, T., Fishman, B., Garfinkle, R., & McMahon, T. (1991, October). *Constructivist Challenges in Hypermedia Design*. Presentation at the Annual Conference on Hypermedia for Education, Muncie, Indiana.



Fishman B., Welsh, T., & Duffy, T. (1991, June). *Strategic Teaching Frameworks: The Design of a Tool for Classroom Restructuring Support*. International Symposium on Computer Education, Taipei, Taiwan.

Fishman, B., & Honebein, P. (1991, March). *Design Implications of Hypermedia Systems*. Invited address, American Institute of Graphic Arts, Indianapolis, IN.

Fishman, B., & Honebein, P. (1991, March). *Hypermedia for the Information Sciences*. Invited address, I.U. School of Library and Information Science, Bloomington, IN.

## **FUNDED RESEARCH**

"Developing and Testing Theories of Implementation: A Workshop on Design Research with Educational Systems," \$184,779.  
National Science Foundation, Division of Research on Learning.  
Principal Investigator. 11/01/10-10/31/12.

"The Impact of Online Professional Development: An Experimental Study of Professional Development Modalities Linked to Curriculum," \$2,432,668.  
National Science Foundation, Teacher Professional Continuum Program.  
Principal Investigator. 7/01/05-6/30/11.

"Child-by-Instruction Interactions in Literacy: Examining Causal Effects of Individualized Instruction in First through Third Grade, " \$3,000,000.  
US Department of Education, Institute for Education Sciences Grant #R305B070074.  
Co-Principal Investigator. PI is Carol Connor, Florida Center for Reading Research.  
7/1/07-5/31/2011.

"Expanding Access to High-Quality Geographic Professional Development," \$9,954.  
National Geographic Society Education Foundation. Principal Investigator. 12/31/09-12/31/10.

"Child-Instruction Interactions: Causal Effects on Reading, " \$2,436,000.  
National Institutes of Health, National Institute of Child Health and Human Development, Grant #R01 HD048539. Co-Principal Investigator. PI is Carol Connor, Florida Center for Reading Research. 9/1/2005- 7/31/2010.

"Child-Instruction Interactions in Early Reading: Examining Causal Effects of Individualized Instruction, " \$1,632,000.  
US Department of Education, Institute for Education Sciences Grant #R305H04013. Co-Principal Investigator. PI is Carol Connor, Florida Center for Reading Research. 9/1/04-8/31/2007.

"Teacher Knowledge, Beliefs, and Technology: Constructing Models of Change in Systemic Reform," \$499,543.  
National Science Foundation CAREER Program. Principal Investigator. 9/1/99-8/31/05.

- "The Administrators' Reform Community: Phase II," \$96,253.  
The Joyce Foundation. A collaboration with Northwestern University, Detroit Public Schools, Chicago Public Schools, Milwaukee Public Schools, Cleveland Public Schools, and Union City Public Schools. Co-Principal Investigator with Louis Gomez of Northwestern University. 9/1/01-8/31/03.
- "Knowledge Networks on the Web (KNOW)," \$399,763.  
W.K. Kellogg Foundation. Co-principal Investigator, with Ron Marx. 4/1/99-8/31/03.
- "Hewlett-Packard/hi-ce Professional Development Initiative," \$307,653  
The Hewlett-Packard Corporation. Co-Principal Investigator with Ron Marx. 8/1/02-7/31/03.
- "Innovation Exchange: Exploring the Portability of Systemic Reform," \$100,936.  
National Science Foundation. Planning grant in the IERI program. A collaboration of the Center for Children and Technology, Union City Schools, NJ, Detroit Public Schools, and the University of Michigan. Co-Principal Investigator with Margaret Honey of CCT. 6/1/01-6/1/03.
- "On-Line Teacher Professional Development Modules," \$50,000  
Michigan Virtual University. A project to develop five 20-hour online courses for teachers to learn about inquiry-based science. Co-Principal Investigator with Ron Marx. 4/1/02-12/31/02.
- "Expanding the Primary Sources Network," \$3,986,978.  
OERI/Department of Education as a subcontract to the Melvindale School District. Co-Principal Investigator with Bob Bain, Phyllis Blumenfeld, Joe Krajcik, Ron Marx, and Elliot Soloway. 3/1/99-9/30/02.
- "Building Capacity Among Junior Researchers in the Learning Sciences: A Request for Special Program Support for the International Conference of the Learning Sciences (ICLS) 2000," \$60,400. National Science Foundation. Co-Principal Investigator with Nancy Songer. 9/1/02-8/31/02.
- "Reality-Based Learning: A Challenge for the 21st Century," \$5,400,000.  
U.S. Department of Education "Challenge Grant." Proposal Co-Author and Project Director. 9/1/96-8/31/01.
- "Administrators' Reform Community (ARC)", \$288,417  
Joyce Foundation. Co-Principal Investigator. 9/1/99-8/31/00.
- "Connecting Detroit Teachers to the Internet with AOL", \$12,000.  
America On-Line (AOL) Foundation. Principal Investigator. 9/1/99-8/31/00.
- "Investigating the Relationship Between Teacher Knowledge and Beliefs and the Classroom Use of Technology," \$7,000. Rackham Graduate School of the University of Michigan. Principal Investigator. 5/1/99-8/31/99.
- "Proposal for Special Program Support for CSCL '97," \$48,000.  
National Science Foundation. Co-Principal Investigator with Tim Koschmann (Southern Illinois University), Jan Hawkins (Education Development Center), and Lorilee Sadler (DePaul University). 9/1/97-8/31/98.

"Expanding and Sustaining Project-Enhanced Science Learning for Urban Teachers and Students Using Collaborative Technology," \$158,119. Illinois State Board of Education. Co-Principal Investigator with Louis Gomez and Eileen Lento. 1/7/97-9/30/97.

## **SOFTWARE DEVELOPMENT**

### Knowledge Networks on the Web (KNOW)

Knowledge Networks on the Web (KNOW) is a web-based system developed with the goal of creating a self sustaining community of teacher learners engaged in knowledge building activities that enhance their ability to use complex new curricula. KNOW is built around standards-based, inquiry-oriented, and technology-rich curriculum materials, and adds a collection of videos, student artifacts, and other enhancements designed to help teachers understand how to interpret curriculum so that it becomes more useable in their local context. This kind of customization is impossible to achieve using traditional materials, but is ideally suited for the web. Furthermore, KNOW supports ongoing asynchronous conversation about how to teach specific curricula, linked to an organically growing set of examples and elaborative information, usually generated by the community of teachers using KNOW regularly. Funding for KNOW was provided by the W.K. Kellogg Foundation and the National Science Foundation. KNOW is on-line at <http://know.umich.edu/>.

## **TEACHING and MENTORING**

### **Ph.D. Theses (Chair or Co-Chair)**

Keren-Kolb, E. (2009). Stimulating preservice teachers' beliefs about the benefits of everyday technology in their teaching. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Lecturer, University of Michigan, Ann Arbor, & Adjunct Assistant Professor, Madonna University, Michigan.

Fogleman, J. (2009). *Designing professional development to increase local capacity to sustain reform*. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, University of Rhode Island.

Lin, H.-T. (2008). *Exploring the role of showing design intent in supporting curriculum modifications*. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Postdoctoral Research Fellow, National Taiwan University.

Kubitskey, B. (2006). *Extended professional development for systemic curriculum reform*.

Unpublished Doctoral Dissertation, University of Michigan, Ann Arbor.

Current Position: Assistant Professor, Eastern Michigan University, Ypsilanti, MI.

Murray, O. (2006). *Investigating support for emerging structures: The role of instructional technology in an urban school district's reform effort*. Unpublished Doctoral Dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, The Pennsylvania State University, University Park, PA.

Brunvand, S. (2005). *Investigating the impact of the presentation of scaffolds on preservice teacher noticing and learning from video*. Unpublished Doctoral Dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, University of Michigan, Dearborn, MI.

### **Ph.D. Theses (Committee Member)**

Bacevich, Amy E. (2010). Building curriculum for teacher education: A study of video records of practice. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Krause, Magia G. (2010). Undergraduate research and academic archives: Instruction, learning, and assessment. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Hemphill, L. (2009). *Building bridges: A case study of collaboration in construction*.

Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Post-Doctoral Fellow, Arizona State University.

Ball-Anthony, A.S. (2007). *Examining school system influences on teachers' technology integration practices*. Unpublished doctoral dissertation, University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, Ohio State University.

McDonald, S. (2004). *Paths through interpretive territory: Two teachers' enactment of a technology-rich, inquiry-fostering science curriculum*. Unpublished Doctoral Dissertation. University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, The Pennsylvania State University, University Park, PA.

Thomas, M. (2003). *The quest of Quest Atlantis: Developing a nuanced implementation of a technology-rich education innovation*. Unpublished doctoral dissertation, Indiana University, Bloomington, IN.

Current Position: Assistant Professor, University of Wisconsin.

Kupperman, J. (2002). *Making meaningful experiences through an on-line character playing simulation*. Unpublished Doctoral Dissertation. University of Michigan, Ann Arbor, MI.

Current Position: Assistant Professor, University of Michigan, Flint, MI.

Margerum-Leys, J. (2001). *Teacher knowledge of educational technology: A case study of student teacher/mentor teacher pairs*. Unpublished Doctoral Dissertation. University of Michigan, Ann Arbor, MI.

Current Position: Associate Professor, Eastern Michigan University, Ypsilanti, MI.

### **Courses Taught**

#### **ED222 and ED602 "Videogames & Learning"**

A course designed as a large lecture class for undergraduates at the University of Michigan, with a focus on the how videogames support learning, how school might be changed to reflect what we know about learning from videogames, and how to evaluate learning from videogames. ED602 is a graduate version of this course.

**ED601 “Transformative Teaching and Learning with Technology”**

Provides an overview of major theories and developments in the area of learning technologies in content areas across school curricula.

**T545 “Engagement and Learning: Technologies that Invite and Immerse**

A course designed and taught at the Harvard Graduate School of Education, focusing on the use of video games in teaching and learning. The course emphasizes empirical evaluation of claims for learning from games, as well as a focus on what makes games motivating and engaging for learners.

**ED603 “Classroom-Based Evaluation of Technology for Learning”**

Provides students with real-world experience in the evaluation of technology for use in K-12 classrooms. "Clients" for projects were recruited from teachers in Ann Arbor, Dearborn, and Detroit, and students worked to create software that met teachers' needs and evaluate both the software design (formative evaluation) and its use in classrooms (summative evaluation).

**ED758: “Leadership, Learning Organizations, and Technology”**

Presents major theories of organizational learning and change, with a focus on the way(s) that technology is used in and is an object of reform in K-12 educational settings.

**ED779: “Technology and Teacher Learning”**

An overview of the role(s) of technology in teacher learning. Theories of teacher learning are reviewed and synthesized, and students survey and critique current projects in teacher learning while developing blueprints for future approaches.

**ED805 “Planning for Technology”**

Graduate seminar to explore and critique current school practices with respect to technology planning and the related literature on technology planning.

**ED805 “Diffusion, Scaling, and Educational Technology”**

An exploration of the reasons why some educational technologies “scale up” and others do not, through the lens of theories of innovation diffusion.

**ED898 “Professional Development Seminar”**

Seminar for doctoral students to introduce a variety of career-related issues.

**SERVICE ACTIVITIES**

**Editorial and Review Positions**

**2005-present:** Associate Editor, *The Journal of the Learning Sciences*.

**2008-present:** Editorial Board Member, *The Elementary School Journal*.

**2005-present:** Editorial Board Member, *Research and Practice in Technology Enhanced Learning*.

**2010-present:** Advisory Board Member, *The Green Bag Almanac and Reader of Exemplary Legal Writing from the Year Just Passed*.

**1998-2006:** Editorial Board Member, *Interactive Learning Environments*.

**2000-2005:** Review Board Member, *Journal of the Learning Sciences*.

**1996-1998:** Co-Executive Editor, *Interactive Learning Environments*.

Co-Executive Editor of the peer-reviewed journal *Interactive Learning Environments*, with Elliot Soloway of the University of Michigan. *ILE* publishes articles about the design and empirical evaluation of learning environments, with an emphasis on technology-enhanced environments.

**Member of Program Committee:**

2011 Computers and Writing Conference, University of Michigan, Ann Arbor, MI  
2010 International Conference on Wireless, Mobile, and Ubiquitous Technologies in Education, Kaohsiung, Taiwan  
2006 International Conference of the Learning Sciences, Bloomington, IN  
2005 International Conference on Computing in Education, Singapore.  
2005 Conference on Computer Support for Collaborative Learning, Taipei, Taiwan  
2004 International Conference of the Learning Sciences, Santa Monica, CA  
2002 International Conference of the Learning Sciences, Seattle, WA  
2001 Conference on Computer Support for Collaborative Learning, Boulder, CO  
1998 International Conference of the Learning Sciences, Atlanta, GA  
1997 Conference on Computer Support for Collaborative Learning, Toronto, Canada  
1996 International Conference of the Learning Sciences, Evanston, IL

**Manuscript Reviewer for:**

*Communications of the ACM*  
*Convergence*  
*Educational Evaluation and Policy Analysis*  
*Educational Researcher*  
*International Journal of Mathematics and Science Education*  
*Journal of Educational Change*  
*Journal of Research in Mathematics Education*  
*Journal of Research in Science Teaching*  
*Journal of Teacher Education*  
*Journal of Social Affairs*  
*Review of Educational Research*  
*Teachers' College Press*  
*Tech Trends*

**Paper Reviewer for:**

American Educational Research Association  
Conference on Computer Support for Collaborative Learning  
International Conference of the Learning Sciences  
Hawaii International Conference on Systems Sciences  
Conference on American Educational Communications and Technology

**Panelist/Reviewer for:**

Frequent panelist for proposal peer-review:  
National Science Foundation  
Qatar National Research Fund (QNRF)  
National Science Council, Taiwan, Republic of China  
Social Sciences and Humanities Research Council of Canada (SSHRC)  
Spencer Foundation  
Palm Education Pioneers grant program.  
AOL Foundation

**Service to the Field**

**2007-2009: Co-Chair**, Jan Hawkins Award for Early Career Contributions to Humanistic Research and Scholarship in Learning Technologies, Division C of the American Educational Research Association.

**2008: Member**, Early Career Mentoring Panel, Association for Educational Communications and Technology.

**2002-2005: Co-Chair**, Conference Committee. International Society of the Learning Sciences.

**2000: Section Chair**, 2001 American Educational Research Association annual meeting. Chair of Division K (Teaching and Teacher Education), Section 1d (Teaching, teacher education, and learning with technology). My section received 127 proposals that were reviewed by 144 reviewers.

**2000: Chair**, ICLS 2000

Chair of the Fourth International Conference of the Learning Sciences, held in Ann Arbor, MI, June 14-17<sup>th</sup> 2000 and attended by 250 researchers and others from 14 countries. Designed conference with a special focus on "capacity building" in the field; co-wrote NSF proposal to support pre-conference workshops on methodology for early-career researchers and a Doctoral Consortium. Invited keynote speakers. Organized and co-managed submission process. Co-edited proceedings.

**1999: Panelist**, CSCL Doctoral Consortium

**1998: Co-Chair**, ICLS Doctoral Consortium

**1997: Chair**, CSCL Doctoral Consortium

**1996: Co-Chair**, ICLS Doctoral Consortium

Served as founding co-chair of this event, held during the International Conference on the Learning Sciences. The Doctoral Consortium was designed to bring together students and faculty from across the field in order to learn about and critique each other's work. The goals of the Consortium are to prepare future researchers and to construct a better understanding of what the important issues are in the Learning Sciences.

**National Committees**

**2009-2010: Member**, National Educational Technology Plan Technical Working Group, U.S. Department of Education (Lead Writer on Teachers and Teaching).

**2009-present:** Member of Board of Directors, SafeSitter, Inc.

**2008-2010:** Member, Distance Education Technical Working Group, U.S. Department of Education.

**2001-2002:** Member of National Technology Advisory Panel, Cleveland Municipal School District.

**1998:** Member of Technology Planning Leadership Council, Schools and Libraries Corporation of the FCC.

### **Regional Committees**

**2003-2004:** Learning Without Limits/Michigan Wireless Learning

Invited member of steering committee for a state-wide program designed to make wireless computing technology available to every 6-12 student in the state of Michigan. Program and committee are sponsored by Speaker of the Michigan House of Representatives Rick Johnson.

**1998-2004:** Consortium for Outstanding Achievement in Teaching with Technology

Founding member of Consortium for Outstanding Achievement in Teaching with Technology (COATT). Statewide committee to recognize excellence in the use of educational technology by pre-service teachers. Sponsored by Senator Carl Levin. This is a consortium of 12 colleges and universities in Michigan working together to design and award certificates of excellence to pre-service teachers who use technology effectively in their disciplines.

### **University-Wide Committees**

**2010-present:** Associate Steward for Teaching and Learning to the Provost's Information Technology Council.

**2011-present:** Member of the selection panel for the Provost's Teaching Innovation Prize.

**2005-2009:** Director of the Collaboratory for Advanced Research and Academic Technologies (CARAT) Fellowship Program.

**2008-2009:** Member of the University of Michigan Special Committee on Institutional Innovation in Collaborative Technologies for Learning.

**2005-2007:** CTools Faculty Advisory Committee.

**2002-2004:** Provost's IT Partnership Review Committee.

**2002:** "Building for the Future" Conference Planning Team.

### **School of Education Committees and Service**

**2010-present:** Coordinator of Educational Studies MA Program

**2008-2010:** Member, Promotion and Tenure Committee.

**2009-2010:** Unit Coordinator, Education in Math, Science & Technology



**2009:** Member, Student Recruitment Task Force.  
**2008-2009:** Member, TEI Technology Committee.  
**2005-2007:** Member, School of Education Executive Committee.  
**2003-2005:** Member, Graduate Affairs Committee.  
**2002-2003:** Member, Learning Technologies Search Committee.  
**2000-2003:** Member, Executive Committee, Educational Studies.  
**1999-2003:** Member, Technology Planning Committee.  
**2002:** Member, Educational Studies Chair Selection Advisory Committee.  
**1998-2001:** Member, Executive Committee, Combined Program in Education and Psychology.  
**1999-2000:** Member, Graduate Affairs Committee.  
**1999-2000:** Member, Committee on Professional Learning.  
**1997-1999:** Member, School of Education/ITD Partnership Committee.  
**1997-1998:** Member, Science Education Search Committee.

### **Other Committee Work**

**1995-1997:** Learning Collaboratory Design Committee, Northwestern University.  
**1994:** Committee on Electronic Rights and Responsibilities, Northwestern University.  
**1993-1994:** Center for Talent Development On-line Advisory Board, Northwestern University.  
**1994:** Glenview School District NSF Grant Advisory Group, Glenview, IL.

### **EARLIER PROFESSIONAL EXPERIENCE**

**Fall 1995-Fall 1996:** Graduate Student Instructor, School of Education and Social Policy, Northwestern University, Evanston, IL.  
**Fall 1994-1997:** CoVis Project Manager, School of Education and Social Policy, Northwestern University, Evanston, IL.  
**Fall 1992-Summer, 1994:** Graduate Research Assistant, School of Education and Social Policy, Northwestern University, Evanston, IL.  
Primary project: Learning Through Collaborative Visualization.  
**1989-1990:** Associate Producer, Financial News Network, New York.  
**1987-1989:** Teacher and Coach, The Wheeler School, Providence, RI.  
**1985-1992:** Associate Director of Programming, The Exploration School at Wellesley College, Wellesley, MA.  
**1990-Spring, 1992:** Educational Designer, School of Business. Indiana University, Bloomington, IN.  
**1991:** Director of Needs Assessment, Head Start, Bloomington, IN.

## **CONSULTING**

- 2010-present:** Advisor to Ednovio Gooru (formerly Google Gooru).
- 2010-present:** Advisory Board Member, NSF-funded SmartGraphs Project, Concord Consortium, Concord, MA.
- 2010-present:** Advisory Board Member, NSF-funded BioGraph Project, MIT and the University of Pennsylvania, Cambridge, MA, and Philadelphia, PA.
- 2010-present:** Advisory Board Member, NSF-funded ScratchEd Project, MIT Media Lab, Cambridge, MA.
- 2010-present:** Advisory Board Member, NSF-funded Beyond Bridging Project, University of Arizona, Tucson, AZ.
- 2010-present:** Advisory Board Member, University of Michigan Ross School of Business Social Venture Fund.
- 2009-present:** Advisor to The College Board on development of SpringBoard Science Education Curriculum.
- 2008-present:** Visitor, NSF-funded “The Active Physics Teacher Community and Teachers’ Resource Center: Implementing a Dual Model of Professional Development” project, Arthur Eisenkraft, PI.
- 2008-present:** Advisory Board member to the e@Leader online education program in Hong Kong, SAR.
- 2007-present:** Exploration School Curriculum Advisory Committee.
- 2006-present:** Eastern Michigan University Educational Technology Program Advisory Board.
- 2005-2010:** Consultant to PBS TeacherLine.
- 2006-2010:** Advisory Board for Henry Ford Learning Academy.
- 2006-2007:** Ann Arbor Public Schools Laptop Program Evaluation
- 2000-2001:** Consultant on Site Usability and Content, XanEdu online course materials.
- 1999-2000:** Consultant on Technology Planning Documents, Michigan Tech Corps.
- 1999:** Design Consultant to *Knowledge Adventure* Software.

## **ORGANIZATIONAL AFFILIATIONS**

- 2002-present:** International Society of the Learning Sciences (ISLS), founding member
- 1991-present:** American Educational Research Association (AERA)  
Division C and Division K  
Special Interest Groups: Science and Technology, Advanced Technologies for Learning
- 2003-2007:** National Staff Development Council
- 1996-2007:** National Association for Research in Science Teaching (NARST)

**1992-2000:** Association for Computing Machinery, SIGCHI

**1992-1998:** Consortium for School Networking (CoSN)

**1991-1994:** Association for Educational Communications and Technology (AECT)