

CURRICULUM VITAE
Ryan L. McFall

Associate Professor of Computer Science
Hope College
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EDUCATION & PROFESSIONAL TRAINING	Degree	Field	Year	University
	B.S.	Math/Computer Science	1993	Hope College
	M.S.	Computer Science.	1995	Michigan State University
	PhD.	Computer Science	2000	Michigan State University

TEACHING FIELDS Primary: Computer Science
Secondary:

COURSES TAUGHT: Exploring Computer Science, Introduction to Computer Science, Business Computing, Software Design & Implementation, Program Development, Scientific Computer Programming, Introductory Data Structures, Discrete Mathematics, Computer Architecture, Computer Graphics, Operating Systems, Database System Design and Implementation, Database Architecture, Senior Project Seminar, Web Technologies, Great Debates in Computer Science, Applications Programming, Socially Conscious Computing, Web Site Design & Implementation

EMPLOYMENT & PROFESSIONAL TRAINING	Dates	Position
	July 2006 – Present	Associate Professor Hope College
	August 2000 – June 2006	Assistant Professor Hope College
	September 1996 – January 2000	Graduate Teaching Assistant Michigan State University
	August 1995 – August 1996	Visiting Instructor Hope College
	August 1993 – July 1995	Graduate Teaching Assistant Michigan State University
	January 1992 – January 1994	Software Developer Total Logistic Control, Zeeland MI

GRANTS, HONORS & FELLOWSHIPS	Date	Name of Grant, Honor or Fellowship
	January 2010	Provost's Award for Service to the Academic Program, Hope College
	May 2004	Hewlett Packard Technology for Teaching, \$69613
	March 2004	Simon denUyl fellow, Hope College
	February 2004	Developing and Deploying a Database to Increase the Usefulness of the ETS Major Field Test for Computer Science Department Program Assessment (Midwest Instructional Technology Center, \$5,000)
	May 2002	National Science Foundation Course, Curriculum and Laboratory Improvement, \$84,947
	January. 2000	Dissertation Completion Fellowship, Michigan State University, \$5,000
	September 1999	Outstanding Engineering Teaching Assistant, Michigan State University
	May 1993	Computer Science Senior Prize (Outstanding student in Computer Science) Hope College
	April 1993	Elected to Hope College Chapter of Phi Beta Kappa

PUBLICATIONS

- McFall, R., & Dershem, H. L. (1994). *Finite state machine simulation in an introductory lab*. Paper presented at the Proceedings of the twenty-fifth SIGCSE symposium on Computer science education, Phoenix, Arizona, United States.
- McFall, R., & Stegink, G. (1997). *Introductory computer science for general education: laboratories, textbooks, and the Internet*. Paper presented at the Proceedings of the twenty-eighth SIGCSE technical symposium on Computer science education, San Jose, California, United States.
- Dershem, H. L., McFall, R. L., & Uti, N. (2002). *Animation of Java linked lists*. Paper presented at the Proceedings of the 33rd SIGCSE technical symposium on Computer science education, Cincinnati, Kentucky.
- Dershem, H. L., McFall, R. L., & Uti, N. (2002). A Linked List Prototype for the Visual Representation of Abstract Data Types. *Interactive Multimedia Journal of Computer-Enhanced Learning*, 4(2).
- McFall, R. L., Urban-Lurain, M., & Weinshank, D. J. (2002). *A Web-to-Database System for Collecting Student Data*. Paper presented at the Frontiers in Education, Boston, MA.
- McFall, R. L. (2004). *Evaluation of a Prototype of an Electronic Textbook Application*. Paper presented at the World Conference on Educational Multimedia, Hypermedia & Telecommunications, Lugano, Switzerland.
- McFall, R. L. (2005). Electronic Textbooks That Transform How Textbooks Are Used. *The Electronic Library*, 23(1), 72-81.

- McFall, R. L., Dershem, H. L., & Davis, D. (2006). Experiences Using a Collaborative Electronic Textbook: Bringing the Guide on the Side Home With You. *Thirty-seventh SIGCSE Technical Symposium on Computer Science Education*, 38(1), 339-343.
- Spielvogel, C., Spielvogel, L. G., & McFall, R. (2009). Role-Playing and the Future of the Textbook. *International Journal of Learning and Media*, 1(4), 11-16. doi: doi:10.1162/ijlm_a_00031
- Urban-Lurain, M., Ebert-May, D., Momsen, J., McFall, R. L., Jones, M. B., Leinfelder, B., & Sticklen, J. (2009). *An Assessment Database for Supporting Educational Research*. Paper presented at the ASEE/IEEE Frontiers in Education, San Antonio, TX. <http://fie-conference.org/fie2009/papers/1194.pdf>
- McFall, R.L. and Cusack, C. (2010). *Ray Tracing as an Object-Oriented Example for CS 1*. *The Journal of Computing Sciences in Colleges*.
- McFall, R. L. and DeJongh, M. (2010). *Increasing Engagement and Enrollment in Breadth-First Introductory Courses Using Authentic Computing Tasks*. Proceedings of the 2011 SIGCSE Technical Symposium on Computer Science Education.

PRESENTATIONS & INVITED ADDRESSES

- McFall, Ryan. "Design and Implementation of an Electronic Textbook", Albion College Colloquium, March 2005.
- McFall, Ryan, Elizabeth Dahm, Daniel Hansens, Christopher Johnson, and Joshua Morse. "A Demonstration of a Collaborative Electronic Textbook Application on the Tablet PC." Poster presentation at 2004 World Conference on Educational Multimedia, Hypermedia & Telecommunications. Lugano, Switzerland.
- McFall, Ryan. "Student and Instructor Centered Electronic Textbooks." Poster presentation at National Science Foundation CCLI Showcase (held in conjunction with Thirty-third SIGCSE Technical Symposium on Computer Science Education), Norfolk, Virginia.
- McFall, Ryan L. Andrews, Joshua. " Increasing Engagement and Enrollment in Breadth-First Introductory Courses Using Authentic Computing Tasks " Poster presentation at 2009 ACM SIGCSE Technical Conference on Computer Science Education, Milwaukee, WI.
- McFall, Ryan and Spielvogel, Christian. *The Valley Sim*, presented at the Council of Independent Colleges Workshop on Information Fluency in the History Major, March 2011.

PROFESSIONAL ACTIVITIES

- Author of PhotoMatch, a computer implementation of the board game "Memory" using digital photos.
- Author of open source, online survey software used on Hope and Michigan State University campuses.
- Panels Coordinator, SIGCSE Annual Conference on Computer Science Education, March 2003.
- Invited Workshop Participant, Microsoft Research Tablet PC in Education workshop, August 2004 and August 2005.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)
 ACM Special Interest Group in Computer Science Education (SIGCSE)
 The Institute of Electrical and Electronics Engineers (IEEE)