

Andrew E. Walker

Assistant Professor, Utah State University start date August 1, 2005

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Education

- **PhD**, Utah State University, Instructional Technology, 2002.
- **MS**, Utah State University, Instructional Technology, 2000.
- **BA**, Washington State University, English, 1995.

Professional Memberships

- American Educational Research Association
- Association for Educational Communications and Technology
- Professors of Instructional Design and Technology

Prior Employment

8/05-present Assistant Professor, Utah State University, Instructional Technology Department
8/02-8/05 Assistant Professor, Lehigh University, Educational Technology Program
8/00-8/02 Research Assistant, Utah State University, NSF Grant (Instructional Architect)
8/99-8/00 Research Assistant, Utah State University, Educational Technology Program
8/96-9/99 Coordinator of Extended Degree Program and Learning Technologies, Department of Human Development at Washington State University

Prior Teaching

Lehigh University

<u>Date</u>	<u>Course Title</u>	<u>Level</u>	<u>Credits</u>
Fall 2002	Introduction to Multimedia Programming	Graduate	3
Fall 2002	Advanced Multimedia Programming	Graduate	3
Spring 2003	Interface Design	Graduate	3
Spring 2003	Database-Driven Web Development	Graduate	3

Summer 2003	Research	Graduate	3
Summer 2003	Introduction to Multimedia Programming	Graduate	3
Fall 2003	Technology-based Teaching and Learning 1: Foundations and Issues	Graduate	3
Fall 2003	Introduction to Multimedia Programming	Graduate	3
Spring 2004	Technology-based Teaching and Learning 1: Foundations and Issues	Graduate	3
Spring 2004	Database-Driven Web Development	Graduate	3
Summer 2004	Technology-based Teaching and Learning 2: Methods and Assessment	Graduate	3
Fall 2004	Development 2 (Flash)	Graduate	3
Fall 2004	Foundations of Educational Technology	Graduate	3
Spring 2004	Design 1 (Instructional/Interface Design)	Graduate	3
Spring 2004	Development 1 (HTML)	Graduate	3
Summer 2005	Development 2 (Flash)	Graduate	3
Summer 2005	Research	Graduate	3

Prior Service

National

- **Proposal Reviewer**, Colorado Institute of Technology, 2003-2005.
- **Reviewer**, American Educational Research Association Conference, 2003.
- **Reviewer**, Tech-Trends, Special International Issue, 2001.

University/College

- **Member**, University Ad Hoc Information Technology Committee (Lehigh University), 2003-2005.
- **Member**, University Advisory Council for Information Services (Lehigh University), 2003-2005.
- **Member**, University Mentoring Committee (Lehigh University), 2003-2004.
- **Member**, University Project Management Certificate Program Committee (Lehigh University), 2002-2005.
- **Member**, College Mentoring Committee (Lehigh University), 2004-2005.
- **Member**, College Faculty Search Committee (Lehigh University), 2004.
- **Member**, College Diversity Committee (Lehigh University), 2003-2005.
- **Member**, College Strategic Planning Advisory Council (Lehigh University), 2003.
- **Member**, College Web Master Search Committee (Lehigh University), 2002.

Departmental

- **Member**, Learning Sciences and Technology Doctoral Degree Committee (Lehigh University), 2003-2005.

Awards/Honors

- **Teacher of the Year**, Utah State University Department of Instructional Technology, as awarded by the Instructional Technology Student Association, 2007-2008.
- **Outstanding Reviewer**, Educational Technology Research and Development (Research Section), 2006.
- **Outstanding Graduate**, Utah State University Department of Instructional Technology, 2003.
- **Senator of the Year**, Utah State University Graduate Student Senate, 2002.
- **Research Assistant of the Year**, Utah State University Department of Instructional Technology, 2001.
- **Research Assistant of the Year**, Utah State University Department of Instructional Technology, 2000.
- **Presidential Fellowship**, Utah State University School of Graduate Studies, 2000-2001.

Part A: Research

Publications

Refereed Journals

Walker, A. & Shelton, B. (in press). Problem-based learning informed educational game design. *Journal of Interactive Learning Research*.

Walker, A., & Leary, H. (in press). A Problem Based Learning Meta Analysis: Differences Across Problem Types, Implementation Types, Disciplines, and Assessment Levels. *submitted for publication, Interdisciplinary Journal of Problem Based Learning*.

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

Kramer, B., **Walker, A.**, & Brill, J. (2007). The Underutilization of Internet and Communication Technology-assisted Collaborative Project-Based Learning Among

International Educators: A Delphi Study. *Educational Technology Research and Development* 55(5), 527-543.

Brill, J., Bishop, M., & **Walker, A.** (2006) An investigation into the competencies required of an effective project manager: A Web-based Delphi study. *Educational Technology Research & Development* 54(2), 115-140.

Walker, A., Recker, M., Lawless, K., & Wiley, D. (2004). Collaborative information filtering: A review and an educational application. *International Journal of Artificial Intelligence in 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), 299-316.

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

Edwards, E., **Walker, A.**, Bergeson, K., Louviere, J., Robinson, K., Higgins, J., & Harris, C. (2001) Genetics in Practice: A Template for Interactive Case Studies, *Tech Trends* 45(1), 29-31.

Book Chapters

Robertshaw, M. B., Leary, H., **Walker, A.**, Bloxham, K., & Recker, M. (in press). Reciprocal mentoring "in the wild": A retrospective, comparative case study of ICT teacher professional development. In P. Gerbic & E. Stacey (Eds.), *Effective Blended Learning Practices: Evidence-Based Perspectives in ICT-Facilitated Education*.

Brill, J. M., & **Walker, A.** (2006). From isolation to legitimate peripheral participation: Encouraging a community of practice among teacher education students through a web resource database. In Orey, M., McClendon, V.J. & Branch, R. M. (Eds.), *Educational media and technology yearbook* (31), 97-118. Englewood, CO: Libraries Unlimited.

Recker, M., **Walker, A.**, & Wiley, D. (2001). *Collaboratively filtering learning objects*. In D. Wiley (Ed.), *Designing Instruction with Learning Objects* (pp. 243-259). Bloomington, IN: AECT.

Refereed Proceedings

Recker, M., Giersch, S., **Walker, A.**, Halioris, S., Mao, X., Palmer, B. (2007). A study of how online learning resources are used. In Proceedings of the 2007 ACM IEEE Joint Conference on Digital Libraries, Vancouver, British Columbia, June 18-23.

Recker, M., **Walker, A.**, & Wiley, D. (2000). An interface for collaborative filtering of educational resources. In Proceedings of the 2000 International Conference on Artificial Intelligence (IC-AI'2000): June 26-29, 2000, 317-322.

Scholarly Presentations

Walker, A., & Leary, H. (2008). *A Problem Based Learning Meta Analysis: Differences Across Problem Types, Implementation Types, Disciplines, and Assessment Levels.* Paper presented at the American Educational Research Association, New York, NY.

Walker, A., Leary, H. (2007). Problem Based Learning: A Meta Analytic Review of Problem and Implementation Types Across Disciplines and Educational Levels. Association for Educational Communications and Technology Annual Conference, Anaheim, CA.

Giersch, S., **Walker, A.**, Recker, M., & Janke, R. (2006). Hitting the trifecta: A professional development model for creating, using and disseminating open education resources. *2006 Open Education Conference.* Logan, UT.

Walker, A. & Brill, J. (2005). If you build it they will not come: Usage data from a recommender system based on web annotations and their implications. *2005 Open Education Conference.* Logan, UT.

DiPietro, K. & **Walker, A.** (2005). Authentic learning tasks for pre-service teachers. Steel-life stories: Pre-service teachers mastering digital storytelling through problem-based learning. National Educational Computing Conference, Philadelphia, PA.

Walker, A. & Brill, J. (2004). *From isolation to legitimate peripheral participation: The development of a web resource database to encourage a community of practice among teacher education students.* Association for Educational Communications and Technology Annual Conference, Chicago, IL.

Walker, A., Brill, J., & Bishop, M. (2004). *Delphi surveys: An alternative approach to needs assessment.* International Society for Performance Improvement Annual Conference, Tampa Bay, FL.

Brill, J., Bishop, MJ, & **Walker, A.** (2003). *An investigation into the competencies required of an effective project manager.* Association for Educational Communications and Technology Annual Conference, Anaheim, CA.

Recker, M., **Walker, A.**, & Lawless, K. (2003). *Show me the way: A recommender system for educational web resources.* American Educational Research Association Annual Meeting, Chicago, IL.

Walker, A. & Recker, M. (2003). *Applications of collaborative filtering to support student learning: Results from an empirical study*. American Educational Research Association Annual Meeting, Chicago, IL.

Walker, A., Edwards, E., Allen, S., & Wiley, D. (2002). *Mediate this!: Tales of resource negotiation*. Association for Educational Communications and Technology Annual Conference, Dallas, TX.

Walker, A., Recker, M., & Wiley, D. (2001). *Beyond Amazon.com: Collaborative filtering applications in education*. Association for Educational Communications and Technology Annual Conference, Atlanta, GA.

Recker, M., Wiley, D., & **Walker, A.** (2001). *The Instructional Architect: Accessing and combining learning objects for instruction*. Association for Educational Communications and Technology Annual Conference, Atlanta, GA.

Walker, A. & Reinke, D. (2001). *The Instructional Architect: An on-line system for discovering, recommending, and combining learning objects*. Northern Rocky Mountain Educational Research Association Annual Conference. Jackson, WY.

Wiley, D., Recker, M., & **Walker, A.** (2001). *The Instructional Architect: Accessing and combining learning objects for instruction*. Thirteenth Annual Instructional Technology Institute. Logan, UT.

Recker, M. & **Walker, A.** (2001). *Show me the way: A recommender system for educational web resources*. American Educational Research Association Annual Meeting, Seattle, WA.

Walker, A. (2001). *Altered vista: An educational collaborative filtering system*. Intermountain Paper & Poster Symposium, Logan, UT.

Walker, A. & Recker, M. (2000). *Altered vista: An educational recommender system*. Technology Expo 2000, Logan, UT.

Invited Presentations

Walker, A. (2006) Processing the PBL literature: A meta-analytic review. Invited talk, Department of Instructional Psychology and Technology. Provo, UT: Brigham Young University.

Multimedia Materials

- *Flash* (2006). Open Education classroom materials available through USU OCW/COSL website.
- *Interactive Multimedia Programming/Flash* (2008). Open Education classroom materials available through USU OCW/COSL website.

Funded Contracts/Grants

- **A Follow-Up Study of Professional Development in Integration of Online Resources**, \$1,400, Consortium of College and University Media Centers. Principal Investigator, 2007-2008.
- **A Set of Tools for Finding, Reusing, and Iteratively Improving Open Content**, \$440,000, Mellon Foundation. Co-Principal Investigator, 2007-2008.
- **Digital Libraries Go To School**, \$491,200 National Science Foundation Teacher Professional Continuum. Co-Principal Investigator, 2006-2009.
- **Project Tomorrow Supplement to Digital Libraries go to School**, \$130,000, National Science Foundation, Teacher Professional Continuum. Co-Principal Investigator, 2006-2009.
- **New Faculty Research Grant**, \$14,940, Utah State University. Principal Investigator, 2006-2007.
- **Faculty Research Grant**, \$3,090, Lehigh University. Principal Investigator, 2005.
- **Teacher Quality Enhancement Grant**, \$1,000, Pennsylvania Department of Education. Principal Investigator, 2004.
- **Teacher Quality Enhancement Grant**, \$1,000, Pennsylvania Department of Education. Principal Investigator, 2003.

Total generated overhead to date (realized and encumbered): **\$197,953**

Proposed Contracts/Grants

- **Problem-Based Learning in Gaming Environments: Literacy Instruction**, \$1,200,000, Department of Education. Co-Principal Investigator, 2009-2013, *under review*.
- **Problem-Based Learning in Gaming Environments: Extending the STEM Paradigm**, \$1,200,000, Department of Education. Co-Principal Investigator, 2009-2013, *under review*.
- **Technology Applications for Beginning Reading: Enhancing Reading Comprehension and Vocabulary Acquisition of First Grade Children**, \$270,590 (USU portion), Department of Education. Co-Principal Investigator, 2008-2011 *rejected*.

Part B: Teaching

Courses Taught

<u>Date</u>	<u>Course Title</u>	<u>Level</u>	<u>Credits</u>
Fall 2005	Planning and Implementation for Technology	Graduate	3

Fall 2005	Problem Based Learning	Graduate	3
Fall 2005	PhD Professional Seminar	Graduate	.5
Spring 2006	Flash	Graduate	3
Spring 2006	Problem Based Learning	Graduate	3
Fall 2006	Planning and Implementation for Technology	Graduate	3
Fall 2006	Flash	Graduate	3
Fall 2006	PhD Professional Seminar	Graduate	.5
Spring 2007	Flash	Graduate	3
Summer 2007	Flash	Graduate	3
Fall 2007	Flash	Graduate	3
Fall 2007	Planning and Implementation for Technology	Graduate	3
Fall 2007	PhD Professional Seminar	Graduate	.5
Spring 2008	Flash	Graduate	3
Spring 2008	Problem Based Learning	Graduate	3
Summer 2008	Interactive Multimedia Programming (Flash)	Graduate	3

Part C: Service

National

- **Reviewer**, Educational Technology Research and Development, 2003-present.
- **Reviewer**, Interdisciplinary Journal of Problem Based Learning, 2008-present.
- **Reviewer**, International Conference of the Learning Sciences, 2005.
- **Reviewer**, Association for Educational Communications and Technology Conference, 2003-present.

University/College

- **Member**, College Research Council, 2008-present.
- **Alternate**, Faculty Senate (College of Education and Human Services), 2006-present.
- **Member**, Teaching Portfolio Committee, 2005-present.

Departmental

- **Chair**, M.S. Curriculum Committee, 2005-present.
- **Chair**, Faculty Search Committee (One Open Rank and two Assistant Professor positions), 2008.
- **Member**, Faculty Search Committee (Department Chair), 2007.
- **Member**, Faculty Search Committee (Department Chair), 2006.
- **Member**, Faculty Search Committee (Assistant Professor), 2006.
- **Member**, M.S. Admissions Committee, 2005-present.

- **Member**, Ph.D. Admissions Committee, 2005-present.