

Jay Pfaffman
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Education

Vanderbilt University, Nashville, TN

Peabody College, Education and Human Development, Ph.D, August 2003

Specialization: Technology

Minor area: Cognitive Studies

Dissertation:

Manipulating and Measuring Student Engagement in Computer-Based Instruction

Committee: Gautam Biswas, John D. Bransford, Charles K. Kinzer,

Robert D. Sherwood (Adviser), Daniel L. Schwartz (Stanford University)

Vanderbilt University, Nashville, TN

B.S. Computer Science, 1987

Academic and Research Experience

Research Associate, 2012–present

Utah State University, Logan, UT

Active Learning Lab, Instructional Technology and Learning Sciences Department.

Assistant Professor of Instructional Technology

The University of Tennessee, Knoxville, TN, 2003–2011

Department of Instructional Technology, Health and Education Studies, College of Education, Health and Human Sciences.

Research Assistant. Stanford University, Stanford, CA, 2001–2003

Teachable Agents Project: Designed computer environments built on the common belief that preparing to teach a subject is the best way to learn it. Designed and ran studies to evaluate their impact on learning. Imagery Project: Participated in designing and conducting experiments investigating the effects of action on imagination.

Research Assistant. Vanderbilt University, Nashville, TN, 1995–2000

Challenge Zone Project: Designed a web-based system that helped students learn by providing feedback and access to resources to investigate how those features affected learning. Scientists in Action Project: Helped develop multimedia adventures that support project-based science instruction and studied how to design instruction to capitalize on engaging stories about scientists.

Instructor: Introduction to Classroom Technologies

Vanderbilt University, Nashville, TN, 1997–1999

Taught a course for education majors introducing students to the technology, skills, and tools needed at Vanderbilt.

Employment

Educational Computer Consultant

Nashville, TN 1995–2001

Trained teachers, wrote technology assessments, and administered Internet servers.

Educational Computer Consultant

Bristol, VT 1993–1995

Helped teachers integrate computers and the Internet into their curricula. Helped computer coordinators establish Internet connections.

Computer Coordinator and Computer Science Teacher

Dwight-Englewood School, Englewood, NJ, 1990–1993

Helped teachers to use computers to support learning in their classrooms. Taught Advanced Placement computer science and middle and upper school computer literacy courses.

Computer Science Teacher

Perkiomen School, Pennsburg, Pennsylvania, 1987–1990

Established the computer department. Developed and taught computer literacy and computer science courses.

Honors

Invited Participant for *Writing Effective Federal Grant Proposals symposium*. Sponsored by the National Science Foundation; hosted by the Association for Educational Communications and Technology (AECT) Research and Theory Division. October 25, 2007.

Invited Participant for *Computer Supported Collaborative Learning (CSCL) 2007 Early Career Workshop*. Sponsored by the International Society for Learning Sciences and the National Science Foundation. July 17-18, 2007.

Super Student Scholarship. Vanderbilt University. 1995–2000.

NASA Space Grant Fellow. Vanderbilt University, Nashville, TN. 1997–1999.

Refereed Journal Articles

Baytiyeh, H. and Pfaffman, J. A. (2010). Open Source Software: A Community of Altruists. *Computers in Human Behavior*, 26, 6, 1345-1354. DOI: 10.1016/j.chb.2010.04.008

Baytiyeh, H. and Pfaffman, J. A. (2010). Volunteers in Wikipedia: When the Community Matters. *Educational Technology and Society*, 13(2), 128–140. <http://bit.ly/baytiyeh2010vw>

Pfaffman, J. A. (2008) Transforming High School Classrooms with Free/Open Source Software: It's Time for an Open Source Software Revolution. *The High School Journal*, (91)3 25–31. <http://bit.ly/pfaffman2008ths>

Hautau, B. L., Skinner, C. H., Pfaffman, J., Foster, S. and Clark, J. C. (2008). Extending the external validity of the Color Wheel: Increasing on-task behavior in an urban, kindergarten classroom. *Journal of Evidence-Based Practices for Schools*, 9(1), 3-17.

Skinner, A. L., Pfaffman, J. A., Jaspers, K. E., and Skinner, C. H. (2008). Supplementing Color Wheel procedures with interdependent group-oriented rewards: Implementation guidelines. *Journal of Evidence-Based Practices for Schools*, 9(1), 47-56.

Pfaffman, J. A. (2007). It's Time to Consider Open Source Software. *TechTrends*, 51(3), 38-43. DOI: 10.1007/s11528-007-0040-x

Perkins, M., & Pfaffman, J. A. (2006). Using a course management system to improve classroom communication. *The Science Teacher*, 73(7), 33-37. <http://bit.ly/perkins2006uac>

Schwartz, D., Martin, T., & Pfaffman, J. A. (2005). How mathematics propels the development of physical knowledge. *Journal of Cognition and Development*, 6(1), 65-88. DOI: 10.1207/s15327647jcd0601_5

Refereed Conference Publications

Sutton, S., McCoy, S. & Pfaffman, J. (2010). Effective uses for Blackboard: Do students and faculty have a shared vision for how Blackboard should be used to support instruction?. In D. Gibson & B. Dodge (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 3361-3366). Chesapeake, VA: AACE. <http://www.editlib.org/p/33894>.

Baytiyeh, H. and Pfaffman, J. A. (2009). Why be a Wikipedian. In *Proceedings of the Computer Supported Collaborative Learning conference* (p. 434-443). International Society for the Learning Sciences. Nominated for Best Student Paper Award. <http://portal.acm.org/citation.cfm?id=1600117>

Pfaffman, J. A. (2007). Transforming instruction without training: A case study of the k12 Linux Terminal Server Project. *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications, 2007* (p. 363-366), Chesapeake, VA: AACE. <http://bit.ly/pfaffman2007tiw>

Pfaffman, J., & Elhanany, I. (2004). Adaptation of a computer networks curriculum for non-technical audience. In *Proceedings of the 34th ASEE/IEEE frontiers in education conference* (p. F4C22-F4C23). Piscataway, NJ: IEEE. <http://fie-conference.org/fie2004/papers/1170.pdf>.

Pfaffman, J. A. (2004). Integrating Moodle into a Course for Pre- and In-Service Teachers. In R. Ferdig & C. Crawford (Eds.), *Society of Information Technology & teacher Education (SITE) International Conference Annual* (p. 1354-1358). Norfolk, VA: Association for the Advancement of Computing in Education. <http://www.editlib.org/d/13664/proceeding.13664.pdf>

Petrosino, A. J., & Pfaffman, J. A. (1997, December). The Mission to Mars Webliographer: A principled approach to the design of a CSDL tool. In R. Hall, N. Miyake, & N. Enyedy (Eds.), *Proceedings of the computer support for collaborative learning 1997 conference* (p. 198-206). Toronto, Ontario, Canada: University of Toronto. <http://gerrystahl.net/cscl/cscl97/papers/petrosino.pdf>

Pfaffman, J. A. (1994, June). Inexpensive E-mail systems for LANs and dial-up. In *Recreating the Revolution. Proceedings of the annual National Educational Computing Conference* (15th ed., p. 317-321). Eugene, OR: International Society for Technology in Education.

Book Chapters

Pfaffman, J. A. (2007). Computer-mediated communications technologies. In J. M. Spector, M. D. Merrill, J. J. G. van Merriënboer, & M. P. Driscoll (Eds.) *Handbook of Research on Educational Communications and Technology* (3rd ed., p. 226-230). Mahwah, NJ: Lawrence Erlbaum Associates.

Articles in Popular Press

Pfaffman, J. A. (2006). Ultimate boot CD. *Learning & Leading with Technology*, 33(7), 40-41.

Chastain, S. and Pfaffman, J. A. (2006). GIMP: GNU Image Manipulation Program *Learning & Leading with Technology*, 33(5), 54-55.

Pfaffman, J. A. (2005). NVU: Web Authoring. *Learning & Leading with Technology*, 33(4), 40-41.

Pfaffman, J. A. (2005). Open source solutions: The OpenCD. *Learning & Leading with Technology*, 33(3), 39-40.

Pfaffman, J. A. (2005). Open source solutions: Moodle. *Learning & Leading with Technology*, 33(2), 42–45.

Grants Awarded

January, 2009. Redefining Ubiquitous Computing. *University of Tennessee*, Professional Development Award. \$5000. Role: Principal Investigator. Completed, May 2010.

December, 2008. The Instructional Use of Blackboard Among Undergraduate Students and Their Instructors. *University of Tennessee*, Project RITE. \$3,000. Role: Principal Investigator. Completed May, 2009.

November, 2006. Investigating the Web Pen Pals Project: What students and teachers have to say about designing, facilitating and engaging in online spaces for “critical talk” about young adult literature. *National Council of Teachers of English*, Creating Communities of Inquiry. \$20,000. Role: Co-PI. Completed.

Academic Presentations

Lee, D., Canfield, D. and Pfaffman J. A. *An assessment of foundational research approaches in journals of computer-assisted language learning*. Paper presented at the Mid-South Educational Research Association (MSERA) Annual Meeting, November 5, 2008.

Christine Greenhow, Pfaffman, J. A., Andrea Prejean, and Neal Strudler (2008, June). *Next generation NETS*T: How to implement new standards for teachers*. Panel discussion at the National Educational Computing Conference, San Antonio, CA.

Pfaffman, J. A. (2008, September). *Guerrilla computing: Using thin clients in spite of technology staffs*. Presentation at The K–12 Open Minds Conference, Indianapolis, IN.

Pfaffman, J. A. (2007, October). *Update on the Third Edition of the Handbook of Research on Educational Communications and Technology*. Presentation at the Association of Educational Communications and Technology’s Annual International Convention, Anaheim, CA.

Pfaffman, J. A. (2005, April). *Tracking student engagement by logging access to online resources*. Poster presented at the American Educational Research Annual Meeting, Montreal, Quebec.

Pfaffman, J. A., & Schwartz, D. L. (2003, April). *What makes hobbies motivating and their relationship to education*. Poster presented at the American Educational Research Association Annual Meeting, Chicago, IL.

Pfaffman, J. A. (2003, March). *Building robust online assessment systems*. Invited presentation to the Stanford Center for Innovations in Learning Special Interest Group on Assessment Stanford, CA.

Petrosino, A. J., & Pfaffman, J. A. (2001, April). Mission to Mars: A flexible design for an evolving curriculum. In T. Keating (Chair), *Building sustainable science curriculum: Acknowledging and accommodating local adaptation*. Symposium at the meeting of the American Educational Research Association, Seattle, WA.

Pfaffman, J. A., Schwartz, D., & Martin, T. (2001, April). *Web-based self-assessments for learning*. Paper presented at the American Educational Research Annual Meeting, Seattle, WA.

Pfaffman, J. A., & Vye, N. (2000, April). Developing adaptive expertise through formative assessment. In N. Vye (Chair), *Adaptive expertise as a goal for learning environments*. Symposium presented at the meeting of the American Educational Research Association, New Orleans, LA.

Brophy S., Elder, S., Pfaffman J. A., Martin, T., Mayfield, C., Vye, N., & Linda Zech (2000, April). *Expanding new methods of technology-embedded assessment and instruction*. Poster presented at the meeting of the American Educational Research Association, New Orleans, LA.

- Thomas, L. J., & Larson, A. E. (1999, May). *Technology standards in teacher education: What is missing?* Jay Pfaffman, discussant. Roundtable discussion conducted at the meeting of the American Educational Research Association, San Diego, CA.
- Petrosino, A. J., & Pfaffman, J. A. (1998, December). *The Mission to Mars Webliographer: A URL database search engine for the classroom*. Poster presented at the International Conference of the Learning Sciences, Atlanta, GA.
- Pfaffman, J., & Barnes, G. F. (1998, April). *The virtual watershed Webliographer: An electronic tool to support teacher professional development*. Paper presented at the National Association for Research in Science Teaching Conference, San Diego, CA.
- Pfaffman, J. A. (1997, November). *Webliographer: Managing web resources for a virtual community*. Presentation at the Sixth Annual International Conference on Telecommunications and Multimedia in Education, Austin, Texas.
- Pfaffman, J., & Cameron, T. (1999, June). *Multiple uses of a URL database*. Workshop presented at the National Educational Computing Conference, Atlantic City, NJ.

Professional Presentations

- Pfaffman, J. A. (2010, July) *Experiences Encouraging Adoption of Thin Clients in K12 Schools*. Presentation at the O'Reilly Open Source Convention (OSCON), Portland, OR.
- Pfaffman, J. A. (2010, July) *Installing, Upgrading, and Managing Moodle*. Presentation at the Tennessee Educational Technology Association Summer Institute, Jackson, TN.
- Pfaffman, J. A. (2010, June) *LTSP as a New Model of Ubiquitous Computing for Schools: Fact or Foolishness?*. Presentation at the South East Linux Fest, Spartanburg, SC.
- Pfaffman, J. A. (2009, December) *Affordable Ubiquitous Computing*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2009, December) *Moodle: A Free Replacement for Blackboard* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2009, December) *Open Source Software: Why Aren't You Using It?* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2009, December) *Ubuntu for You* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Lee, D.**, and Pfaffman, J. A. (2008, December) *Moodle: like Blackboard (but better) and free*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2008, December). *Open Source Software: Why Aren't You Using It?* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2008, December) *Affordable Ubiquitous Computing: Free Software can mean Free Hardware*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2008, December) *Saying Goodbye to Software Licensing: Installing and Using Ubuntu*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2008, September). *Free/Open Source Software (F/OSS): What are the possibilities?* Presentation at the The 7th Annual Tennessee Educational LEADership Conference, Nashville, TN.

- Pfaffman, J. A. (2008, September). *Moodle: Teacher Web Pages with Free Software and Minimal Training*. Presentation at the The 7th Annual Tennessee Educational LEADership Conference, Nashville, TN.
- Wagh, M., Pfaffman, J., and Counts, E. (2008, April). *WebIT: Needs-Assessment Results for an Online Masters in IT at Tennessee (UTK)*. Poster presented at the 13th Annual Instructional Technology Conference, Murfreesboro, TN.
- Pfaffman, J. A. (2007, November). *Free/Open Source Software: Why Aren't You Using it?* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2007, November). *Moodle: Like Blackboard (but Better) and Free* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2007, November). *Affordable Ubiquitous Computing* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2006, December). *Creating web sites without training*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2006, December). *Open Source Software: Why Aren't You Using It?* Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2006, December). *Moodle: Like Blackboard (but Better) and Free*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2006, July). *Open Source Software: Why Aren't You Using It?* Presentation at the Tennessee Educational Technology Association Summer Institute, Franklin, TN.
- Pfaffman, J. A. (2006, July). *Teacher web pages without training*. Presentation at the Tennessee Educational Technology Association Summer Institute, Franklin, TN.
- Pfaffman, J. A. (2006, July). *Moodle: An Open Source course management system (think Blackboard)*. Presentation at the Tennessee Educational Technology Association Summer Institute, Franklin, TN.
- Pfaffman, J. A. (2006, July). *K-12 and higher education technology partnership round table*. Presentation at the Tennessee Educational Technology Association Summer Institute, Franklin, TN.
- Pfaffman, J. A. (2005, December). *Moodle: Web Presence and Parent Commuiation the Easy Way*. Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2005, December). *Web Pages without Training or Software*. Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2005, December). *Create your own Linux Terminal Server*. Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2005, December). *What School Administrators Should Know about Open Source Software*. Presentation at the Tennessee Educational Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2005, December). *What Geeks Should Know about Open Source Software*. Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2005, July). *How to upgrade an entire computer lab for \$3000*. Presentation at the Tennessee Educational Technology Association Summer Institute, Greeneville, TN.
- Pfaffman, J. A. (2005, July). *Moodle: A free replacement for Blackboard*. Presentation at the Tennessee Educational Technology Association Summer Institute, Greeneville, TN.

- Pfaffman, J. A. (2005, July). *Open Source Software: Why aren't you using it?* Presentation at the Tennessee Educational Technology Association Summer Institute, Greeneville, TN.
- Pfaffman, J. A. (2005, July). *Personal computers won't change schools until schools have personal computers.* Presentation at the Tennessee Educational Technology Association Summer Institute, Greeneville, TN.
- Pfaffman, J. A. (2004, December). *K12LTSP: Making One Workstation into Six for Under \$200.* Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2004, December). *What Geeks Should Know about Open Source Software..* Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2004, December). *What School Administrators Should Know about Open Source Software.* Presentation at the Tennessee Educational Technology Technology Conference, Nashville, TN.
- Pfaffman, J. A. (2004, June). *Create your own mini-Yahoo for your school.* Breakout Session presented at the Tennessee Educational Technology Association Summer Institute, Paris, TN.
- Pfaffman, J. A. (2004, June). *Free software for Microsoft Windows users.* Breakout Session presented at the Tennessee Educational Technology Association Summer Institute, Paris, TN.
- Pfaffman, J. A. (2004, June). *Moodle a free alternative to Blackboard or WebCT.* Breakout Session presented at the Tennessee Educational Technology Association Summer Institute, Paris, TN.
- Pfaffman, J. A. (2003). *Building your own search engine with Webliographer.* Workshop presented at the Tennessee Educational Technology Conference, Nashville, TN.
- Merrick, S., & Pfaffman, J. A. (2000, April 14). *Using webliographer in your lower school classroom.* In-service workshop, University School of Nashville.
- Pfaffman, J. A. (2000, July). *First steps in Linux.* Workshop presented at the Tennessee Education Technology Association Institute, Nashville, TN.
- Pfaffman, J. A. (2000, July). *Issues and answers in Linux.* Workshop presented at the Tennessee Education Technology Association Institute, Nashville, TN.

Web-Based Software Tools

Pfaffman, J (2003). Tracker.

The Web Tracking Facility is a system that allows teachers and researchers to track access to web-based resources, logging user and time data.

Pfaffman, J. A. (2003). Engagement Sampling Tool.

The Engagement Sampling Tool periodically polls users about their current state of engagement. It can easily be modified to periodically ask users about other issues.

Pfaffman, J. A. and Cognition and Technology Group at Vanderbilt (CTGV) (1999–2001). SysTER formative assessment system.

SysTER is a system for building online assessments for learning. Using SysTER students access online resources, have multiple opportunities to reflect on their answers, and receive feedback that encourages reflection on their thinking.

Pfaffman, J. A. and CTGV (1998–1999). Challenge Zone Assessment System

This system allows students to direct their own learning by choosing what topic to work on next, provides access to resources during the assessment, and gives continual feedback on their progress.

Pfaffman, J. A. and CTGV ((1998–1999) Kids Online.

CTGV and Pfaffman, J. (1997-1998). SMARTlab Catalog System

SMARTlab provides a catalog of tools for helping to determine water quality. The system provides immediate feedback which motivates learners to do more research to improve their answers.

Pfaffman, J. A. (1996). CPB Boyer Next Step Grant Submission and Review system.

The Corporation for Public Broadcasting held a series of grant competitions designed to make connections between higher education and K–12 schools. I helped develop the rubric that reviewers used to evaluate the proposals and created the web-based system that accepted proposals, and the reviewer feedback.

Pfaffman, J. A. (1995–present). Webliographer
<http://webliographer.com/webliographer/>

Webliographer, one of the earliest social bookmarking sites, allows teachers, librarians, and instructional designers to build annotated lists of URLs that can be searched or browsed in a variety of ways. It was originally based on the assumption that no general-purpose search engine could adequately suit the needs of individual schools or classrooms. Webliographer is free software, and the site continues to be used by schools and teachers.

Courses Taught

Instructional Technology 521, Computer Applications for Education

Instructional Technology 566, Managing Instructional Media

Instructional Technology 669, Instructional Media Research

Instructional Technology 678, Seminar in Instructional Technology

Instructional Technology 695, Learning and the Internet

Freshman Seminar 129, Why It's Wrong to Pay for Software

Doctoral Committees

Chair: Hoda Baytiyeh, 2009. *Open Source Software: Contributors Motivations in a Community of Practice.*

Chair: Kevin Thomas, 2007. *Weblogs used as Online Discussion Boards in the Secondary Classrooms.*

Member: Jun Li, 2009. *The Roles of Self-Efficacy and Personality Traits in Motivating Interns Learning and Using Technology.*

Member: Scott Ellison, 2009. *In Contradiction: The Concept of Globalization in the Popular Discourse of Education Reform.*

Member: Shelley McCoy, 2008. *Technology-Training for Preservice Teachers in Schools, Colleges, and Departments of Education Affiliated with Selected Teacher Education Professional Organizations: The State of Practice in 2008.*

Member: Hariette Spiegel, 2007. *Experiencing the Barriers to Web Accessibility: A Study of the Experiences of Computer Users with Visual Disabilities While Using the Internet.*

Member: Jackie Fish, 2005. *The Evidence Does Not Lie: A Forensic Investigation Program to Bridge the Gaps Between Crime Scene Investigation and Forensic Science.*

Professional Service and Affiliations

Editorial Work

Editorial Review Board, *Journal of Research on Teacher Education*, 2007–present.

Manuscript Review Board, *Journal of Educational Communications and Technology*, 2009–present.

Editorial Review Board, *Journal of Educational Computing Research*, 2009–present.

Reviewer, *Journal of the Learning Sciences*, 2009–present.

Ad Hoc Reviewer

Journal of the Learning Sciences.

Research and Practice in Technology Enhanced Learning.

Conference Reviewer

American Educational Research Association annual meeting

Computer Supported Collaborative Learning conference

Memberships:

- International Society for the Learning Sciences
- American Educational Research Association
- Mid-South Educational Research Association
- International Society for Technology in Education.

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