

**Randall Spencer Davies Ph.D.**  
**CURRICULUM VITA**

**Contact Information**

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Brigham Young University  
150-L MCKB  
Provo, UT 84602

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**Professional Education and Academic Degrees**

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- 2002      **Ph.D. Instructional Psychology and Technology**  
Brigham Young University, Provo, Utah, USA  
Dissertation Thesis: Exploring the Meaning and Function of  
Learner Intent for Students taking Online University Courses.
- 1997      **M.S. Instructional Psychology and Technology**  
Brigham Young University, Provo, Utah,, USA  
Masters Topic: Motivational Design of Instruction  
Masters Thesis: The development and evaluation of an instructional system for  
teaching computer animation.
- 1985      **B.ED. Secondary Education**  
University of Alberta, Edmonton, Alberta, Canada
- 1984      **B.Sc. Mathematics & Computer Science**  
University of Alberta, Edmonton, Alberta, Canada

**Higher Education Professional Experience**

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- 2008 - present      **Associate Professor Instructional Psychology & Technology**  
**Brigham Young University, Provo, Utah, USA**  
Responsibilities include teaching graduate courses. Conducting educational  
research and evaluations. Assisting Masters and Ph.D. students conduct  
educational research and evaluations.
- 2004 - 2008      **Assistant Professor Educational Research**  
**Indiana University South Bend, Indiana, USA**  
Responsibilities include teaching graduate courses. Conducting educational  
research and evaluations. Assisting Masters students conduct educational  
research.
- 2002 - 2004      **Center for Evaluation & Education Policy at Indiana University**  
**Bloomington, Indiana, USA**  
Senior Research Faculty: Responsible for the development, implementation and  
management of evaluation and research projects for a range of programs and  
clients. Duties include proposal development, evaluation design, data collection,  
statistical analysis, report preparation and presentation.
- 1997 - 2001      **Higher Colleges of Technology - Dubai Women's College**  
**Dubai, United Arab Emirates**  
Instructor: Computer Information Technology. Taught IT courses. Worked  
extensively with course development, evaluation and web site design.

## **K-12 Professional Experience**

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1988 – 1997

### **Grand Center High School, Cold Lake, Alberta, Canada**

Mathematics & Computer Science Teacher: Taught career and technology studies courses. Maintained computer networks. Worked extensively with course development, evaluation and the creation of instructional products.

## **Scholarly Activities and Research**

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### **Manuscripts in Progress or Revision**

- Young, J. & Davies, R. (Manuscript in Progress). *Keystroke Dynamics: Utilizing keyprints in online courses*. Based on Jay Young's dissertation.
- Davies, R., & LaValle, J. (Manuscript in Progress). Defining Foundational Concepts for the Design of an Introductory Evaluation Course.
- Davies, R., Bateman, E., Young, D., & Thomas, J. (Manuscript in Progress). *Defining the Field: Understanding definitions used to delineate the fields of educational data mining and learning analytics*.
- Davies, R., Randall, D., & Sorensen, A. (Manuscript in Progress). *Use of Video in Online Assessments*. Based on research conducted with local food safety company to improve online assessments.
- Lutes, L., & Davies, R. (manuscript in revision). Comparison of Workload for University Core Courses Taught in Regular Semester and Time-Compressed Term Formats.

### **Manuscripts in Review for Publication**

- Nyland, R., Davies, R., Chapman, J., & Allen, G. (Manuscript in Review). The Predictive Value of Courseware Analytics on Student Performance in Online Authentic Assessments
- Chapman, J., Davies, R., Nyland, R., & Allen, G. (Manuscript in Review). Digging Deeper: The Potential of Transaction-level Data in an Online Instructional System to Diagnose Knowledge Gaps and Inform Diagnostic Feedback and Remediation.
- Chapman, J., Davies, R., Nyland, R., & Allen, G. (manuscript in Review). Improving the Accuracy of an Automated Grading System
- Manwaring K.F., Jensen, J.L., Gill, R.A., Sudweeks, R.R., Davies, R.S, & Seth M. Bybee, S.M. (manuscript in Review). Scientific reasoning ability does not predict scientific views on evolution. PLOS ONE

### **Peer Reviewed Publications (see <https://scholar.google.com/citations?user=rVBZbl0AAAAJ&hl=en> )**

- Davies, R., Nyland, R., Bodily, R., Chapman, J., Jones, B., & Young, J. (2017). Designing technology-enabled instruction to utilize Learning Analytics. *Tech Trends*, 61(2). 155-161.
- Oviatt, D., Graham, C. R., Borup, J., & Davies, R. S. (2016). Online student perceptions of the need for a proximate community of engagement at an independent study program. *Journal of Online Learning Research*, 2(4), 333–365.
- Nyland, R., Davies, R., Chapman, J., & Allen, G. (2016). Transaction-Level Learning Analytics in Online Authentic Assessments. *Journal of Computing in Higher Education*, 1-17. <http://dx.doi.org/10.1007/s12528-016-9122-0>  
<http://link.springer.com/article/10.1007/s12528-016-9122-0>

- Davies, R. & Ashton, S. (Nov, 2015). Using scaffolded rubrics to improve peer assessment in a MOOC writing course. *Distance Education*, 36(3). 312-334.  
<http://dx.doi.org/10.1080/01587919.2015.1081733>
- Davies, R., Randall, D., & West, R. (2015). Using open badges to certify practicing evaluators. *American Journal of Evaluation*, 36(2). 1-13.  
<http://dx.doi.org/10.1177/1098214014565505>
- Davies, R., & Williams, D. (2015). Utah Tuning Project. *Tuning Journal for Higher Education*, 2(2). 1-15.
- Davies, R., & Quadisat, R. (2015). Benefits of the Michiana Daily Mathtracks Program for students living in poverty. *Educational Research and Evaluation*, 21(4). 301-323.  
<http://dx.doi.org/10.1080/13803611.2015.1047783>
- Zaugg, H., Davies, R., Parkinson, A. & Magleby, S. (2015). Best practices for using global virtual teams. *Tech Trends*, 59(4). 87-95.
- Davies, R., Zaugg, H., & Tateishi, I., (2015). Design and development of a cross-cultural disposition inventory. *European Journal of Engineering Education*. 40(1), 81-94.  
<http://dx.doi.org/10.1080/03043797.2014.915289>
- Davies, R. & MacKay, K. (2014). Evaluator Training: Content and topic valuation in university evaluation courses. *American Journal of Evaluation*, 35(3), 419-429.  
<http://dx.doi.org/10.1177/1098214013520066>
- Knight, K., & Davies, R. (2014). Using a mobile dichotomous key iPad application as a scaffolding tool in the museum setting. *Interactive Learning Environments*, 22(4), 1-15.  
<http://dx.doi.org/10.1080/10494820.2014.924532>
- Borup, J., West, R., Graham, C., & Davies, R. (2014). The adolescent community of engagement framework: a lens for research on K-12 online learning. *Journal of Technology and Teacher Education*, 21(1), 107-129
- Davies, R., Ball, N., & Dean, D. (2013). Flipping the Classroom and Instructional Technology Integration in a College Level Information Systems Spreadsheet Course. *Educational Technology Research & Development*, 61(4), 563-580.
- Zaugg, H., & Davies, R., (2013). Communication Skills to Develop Trusting Relationships on Global Virtual Engineering Capstone Teams. *European Journal of Engineering Education*, 38(2), 228-233. Citations: 3
- Borup, J., Graham, C., & Davies, R. (2013). The Nature of Parental Interactions in an Online Charter School. *The American Journal of Distance Education*, 27(1), 40-55. Citations: 10
- Borup, J., Graham, C., & Davies, R. (2013). The Nature of Adolescent Learner Interaction in a Virtual High School Setting. *Journal of Computer Assisted Learning*. 29, 153-167.
- Cox, T., & Davies, R. (2012). Using Automatic Speech Recognition Technology with Elicited Oral Response Testing. *Computer Assisted Language Instruction Consortium (CALICO) Journal*. 29(3), 601-618.
- Lutes, L., & Davies, R. (2012). Comparing the Rigor of Compressed Format Courses to their Regular Semester Counterparts. *Innovative Higher Education*. 38(2), 1-11.  
<http://dx.doi.org/10.1007/s10755-012-9226-z>
- Ball, A., Zaugg, H., Davies R., Tateishi, I., Parkinson A., Jensen, G., & Magleby, S., (2012). Identification and Validation of a Set of Global Competencies for Engineering Students. *International Journal of Engineering Education*. 28(1), 156-168.

- Davies, R. (2011). Understanding Technology Literacy: A framework for evaluating educational technology integration. *Tech Trends*, 55(5) (September/October), 45-52. <http://dx.doi.org/10.1007/s11528-011-0527-3>
- Davies, R., Howell, S.L. & Petrie, J. (2010). A review of trends in distance education scholarship at research universities in North America, 1998-2007. *International Review of Research in Open and Distance Learning*, 11(3), 45-56.
- Davies, R., & Cress, S. (2010) Understanding the Diminishing Academic Advantage of Full Day Kindergarten. *Mid-Western Educational Researcher*, 23(2), 18-26.
- Davies, R., Williams, D., & Yanchar, S. (2008) The Use of Randomization in Educational Research and Evaluation: A critical analysis of underlying assumptions. *Evaluation and Research in Education*, 21(4), 303-317.
- Davies, R. (2008) AYP accountability policy and assessment theory conflicts. *Mid-Western Educational Researcher*, 21(4), 2-8.
- Alkema, K., Linton, J., & Davies, R. (2008). A Study of the Relationship between Self-Care, Compassion Satisfaction, Compassion Fatigue, and Burnout among Hospice Professionals. *Journal of Social Work in End-of-Life & Palliative Care*, 4(2), 101-119.
- Davies, R. (2008) Designing a Useful Scale to Measure Average Group Response. *Evaluation and Research in Education*, 21(2), 134 - 146.
- Peterson, N.J., Davies, R., Spitzer, B. (2006) Validity of Data Driven Decisions: Understanding your data collection instruments. *Educational Research and Review* 1(9), 267-271
- Davies, R, Osguthorpe, R.T. (2003) Reflecting on Learner Intent. *Reflective Practice*, 4(3) October.
- Davies, R, (2003) Learner Intent and Online Courses. *Journal of Interactive Online Learning* 2(1), 1-10.
- Osguthorpe, R. T., Osguthorpe, R. T., Jacob, J. & Davies, R. (2003). The Moral Dimensions of Instructional Design. *Educational Technology*, 43(2), 19-23.
- Davies, R. (1999). Evaluation Comparison of Online and Classroom Instruction. *Higher Colleges of Technology Journal*. 4(1), 33-46.

### **Books, Book Reviews, and Book Chapters**

- Davies, R.. (accepted 2017). Assessing Learning Outcomes. In M. Spector, M.J. Bishop, M. D. Merrill, & J. Elen, (Eds.), *Handbook of Research on Educational Communications and Technology (4th Edition)* (pp. xxx-xxx). New York, NY: Lawrence Erlbaum.
- Cox T.L., Davies R.S. (2016) From Standards to Rubrics: Comparing Full-Range to At-Level Applications of an Item-Level Scoring Rubric on an Oral Proficiency Assessment. In: Zhang Q. (eds) *Pacific Rim Objective Measurement Symposium (PROMS) 2015 Conference Proceedings*. Springer, Singapore.
- Davies,R. (2015) Book Review. Formative Assessment in Practice: A Process of Inquiry and Action. *Teachers College Record*. Published Online: June 2015. <http://www.tcrecord.org>
- Davies, R. & West, R. E. (2014). Technology integration in school settings. In M. Spector, M.J. Bishop, M. D. Merrill, & J. Elen, (Eds.), *Handbook of Research on Educational Communications and Technology (4th Edition)* (pp. 841-853). New York, NY: Lawrence Erlbaum.
- Davies, R. (2009). *Exploring the Meaning and Function of Learner Intent*. Saarbrücken, Germany: VDM Publishing House Ltd.

- Davies, R., Sprague, C., & New, C. (2008). Integrating Technology into a Science Classroom: An evaluation of inquiry-based technology integration. In D.W. Sunal, E. L. Wright, & C. Sundberg (Eds.), *The Impact of Technology and the Laboratory on K-16 Science Learning series: Research in Science Education* (pp. 207-237). Charlotte, NC: Information Age Publishing, Inc.
- Davies, R. (2006) Learner Intent and Online Learning. In C.S. Sunal, E. K. Wilson, & V. H. Wright (Eds.), *Perspectives on Distance Learning series: Research on Enhancing the Interactivity of Online Learning*. (pp. 5-26). Greenwich, CT: Information Age Publishing.

## **Evaluation & Technical Reports**

- Evaluation of the Utah tuning II project funded by the Lumina Foundation. Interim Report, Aug 2011 to May 2013. Final Report, Jun. 2014.
- Evaluation of the Michiana Mathtrack project. South Bend Community School Corporation. Statistical Analysis and Fifth Year Report, Aug 2007 to Dec 2012.
- Evaluation of the 9<sup>th</sup> grade PBL/Technology Project: Indianapolis Public Schools. Final Report, August 2011.
- Evaluation of the Notre Dame RET Project (RET@ND): Notre Dame University. Annual Reports, 2009-2010. Final Report, Nov. 2010.
- Evaluation of the IPS One-to-One Science Project: Indianapolis Public Schools. Annual Reports 2005- 2008. Fifth Year Final Report, July 2009.
- Evaluation of Learning Perspectives Initiative: Foellinger Foundation. May 2004.
- The effects of the OhioReads Reading Program on academic achievement. Ohio Department of Education. Sept. 2003.
- The impact of the Reading Rescue Tutoring Program on students' reading achievement. The Literacy Trust Inc. Sept. 2003.
- Parental Satisfaction Survey: Community and Traditional Public Schools in Ohio. The Legislative Office of Education Oversight and Ohio Department of Education. May 2003
- Michigan Small Class Size Initiative Report. Statistical Analysis and Report. NCREL. May 2003
- Ripley County CAPE Initiative. Evaluation of the development of a virtual learning network. Presentation of written report. December 2002, June 2003, December 2003 & June 2004.
- Web-Based Tools Interim Report. NCREL. December 2002
- Evaluation of the Learning Perspectives Initiative, Year 3 Report. Foellinger Foundation. November 2002
- Evaluation Comparison of Online and Classroom Instruction for HEPE 129. Presentation of written report. BYU August 1998.
- Overall Technology Readiness and Use Report. Presentation of written report presented to the Lakeland Catholic School Board, Bonnyville, AB, Canada. June 1992.

## Conference Presentations & Papers

- Davies, R., Colby, B., Staples, M., Cumberland, T., & Allen, G. (2017, Nov). Improving an Intelligent Tutoring System Utilized in an Online Introductory Spreadsheet. Paper presented at the 2017 Conference of the Association for Educational Communications and Technology in Jacksonville, FL.
- Warnick, G. Jesiek, B. & Davies R.S. (2016). A Longitudinal Study of Social and Ethical Responsibility Among Undergraduate Engineering Students: Preliminary Results. *American Society of Engineering Education*. Conference Proceedings.
- Davies, R., & LaValle, J. (2016, Oct). Defining Foundational Concepts for the Design of an Introductory Evaluation Course. Think Tank presented at the 2016 Conference of the American Evaluation Association in Atlanta, GA.
- Davies, R., Nyland, R., Bodily, R., Chapman, J., Jones, B., & Young, J. (2016, Oct). What Should Instructional Designers Know About Learning Analytics? Paper presented at the 2016 Conference of the Association for Educational Communications and Technology in Las Vegas, NV.
- Nyland, R., Davies, R., Chapman, J., & Allen, G. (2016, Oct). Learning Content Analytics: Exploring the Link Between Video, Reading, and Assessment in an Online Course. Paper presented at the 2016 Conference of the Association for Educational Communications and Technology in Las Vegas, NV.
- Chapman, J., Davies, R., Nyland, R., & Allen, G. ((2016, Oct). Digging Deeper: Assessing Student Understanding using Rule-Based, Transaction-level Data. Poster session presented at the 2016 Conference of the Association for Educational Communications and Technology in Las Vegas, NV.
- Chapman, J., Davies, R., Nyland, R., & Allen, G. ((2016, Oct). Characteristics of Second Submission Learners at the Transaction and Knowledge Component Levels. Poster session presented at the 2016 Conference of the Association for Educational Communications and Technology in Las Vegas, NV.
- Cox, T. L. & Davies R. (2016). From Standards to Rubrics: Comparing Full-Range to At-Level Applications of an Item-Level Scoring Rubric on an Oral Proficiency Assessment. Q. Zhang and T. Bond (eds.), Pacific Rim Objective Measurement Symposium (PROMS) 2015 Conference Proceedings, DOI 10.1007/978-981-10-1687-5\_14
- Fuentes, D., Warnick, G., Jesiek, B. & Davies, R. (2016, Jun). A Longitudinal Study of Social and Ethical Responsibility Among Undergraduate Engineering Students: Preliminary Results. Paper presented at the 2016 ASEE Annual Conference in New Orleans, LA
- Nyland, R., Davies, R., Chapman, J., & Allen, G. (2015, Oct). Accelerating Learning with Analytics: Using Transaction Level Data to Identify Student Misconceptions. Paper presented at the 2015 Conference of the Association for Educational Communications and Technology in Indianapolis, IN.
- Davies, R., Nyland, R., Chapman, J., & Allen, G. (2015, Mar). *Using Transaction-Level Data to Diagnose Knowledge Gaps and Misconceptions*. Paper presented at the Learning Analytics & Knowledge (LAK15) conference, Pookeepsie, NY. Paper published in Proceedings.
- Manwaring, K. & Davies, R. (2014, Oct). *Best Practices for Involving Teachers as Partners in an Evaluation*. Think tank presented at the annual conference of the American Evaluation Association, Denver, CO.

- Davies, R., Randall, D., & West, R. (2014, Oct). *Using Open Badges as a Certification Solution for Evaluators*. Paper presented at the annual conference of the American Evaluation Association, Denver, CO.
- Allen, G., Ball, N., Davies, R. & Chapman, J., (2014, May). *Analysis of cognitive processing in electronic problem solving activities: insights on learning from examining activity-trace data*, Accounting Information Systems Educator Conference, Golden, CO.
- Cox, T. & Davies, R., (2014, Mar). *Comparing Full-range to At-level Applications of an Item-level Scoring Rubric on a Speaking Performance Assessment*, American Association for Applied Linguistics 2014 Conference. Portland, Oregon.
- Davies, R., Perry, K., Astbury, B., & Morrow, J., (2013, Oct). *Training Evaluators: Learning Outcomes for Introductory Evaluation Courses*. Expert panel presentation at the annual conference of the American Evaluation Association, Washington, DC.
- Randall, D., Sorensen, A. & Davies, R., (2013, Nov), *Using Video Simulations on Objectively scored Online Certification Assessments to measure Higher-Level Learning*. Paper presented at the Association of Educational Communication and Technology annual conference, Louisville, KY.
- Zaugg, H., Davies, R., Magleby, S., & Parkinson, A. (2013, Jun), *Summary Findings on the Use of GV teams to Provide Meaningful Cross-Cultural Experiences for Engineering Students*, Research presentation at ASEE Conference in Atlanta, Georgia.
- Quadisat, R. & Davies, R. (2013, May). *Overcoming the inequity of quality educational opportunities: Evaluating the benefits of the Michiana Daily Mathtracks program for students living in poverty*. IDEAS Global Assembly, Bridgetown, Barbados.
- Davies, R., & Zaugg, H., (2012, Nov), *Best Practices for Using Global Virtual Teams*. Paper presented at the Association of Educational Communication and Technology annual conference, Louisville, KY.
- Davies, R., Hall, M., Kirkhart, K., & Thomas, V., (2012, Oct). *Teaching Cultural Competence*. Expert panel presentation at the annual conference of the American Evaluation Association, Minneapolis, MN.
- Davies, R. (2012, Oct). *The WHAT and WHERE of Teaching Evaluation*. TIG business meeting presenting results of TIG survey at the annual conference of the American Evaluation Association, Minneapolis, MN.
- Borup, J., Graham, C., & Davies, R. (2011, October). *The Impact of Parental Interaction on Student Outcomes in a Virtual High School*. In *World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education* (Vol. 2011, No. 1, pp. 2316-2323).
- Morris, M., Davies, R., Schrader, L., & Stabile, B. (2011, Nov). *Values and Ethics: Challenges in Education Practice*. Presidential Strand Think Tank at the annual conference of the American Evaluation Association, Anaheim, CA.
- Zaugg, H., Parkinson, A., Magleby, S., Jensen, C., Davies, R., & Tateishi, I. (2011, Jun), *Creation and Implementation of a Principles of Global Virtual Teams Course Taught Concurrently with an International Capstone Experience*, Research presentation at ASEE Conference in Vancouver, British Columbia, Canada.
- Davies, R. (2010, Nov). *Critical Concepts for Introductory Evaluation Courses: Multiple Perspectives*. TIG business meeting presenter at the annual conference of the American Evaluation Association, San Antonio, TX.

- Ivins, T., Williams, D., & Davies, R. (2010, Nov). *Increasing Access Through Openness. Evaluating Open Instructional Resources in Himalayan Community Technology Centers.* Round table presentation at the annual conference of the American Evaluation Association, San Antonio, TX. [Student Research]
- Zaugg, H., Parkinson, A., Magleby, S., Jensen, C., Davies, R., Tateishi, I., & Ball, A. (2010, Oct). *Teaching Cross-Cultural Competencies and Virtual Communication Skills Concurrently with a Capstone Project.* Poster session presentation at the 9th Annual ASEE Global Colloquium on Engineering Education, Singapore, Singapore.
- Davies, R. (2010, Oct). *Research Trends in Distance Education.* Paper presented at the Association of Educational Communication and Technology annual conference, Anaheim, CA.
- Tateishi, I., Zaugg, H., & Davies, R. (2010, Oct). *Virtual Technologies to Develop Cultural Competencies Across Continents and Cultures.* Paper presented at the Association of Educational Communication and Technology annual conference, Anaheim, CA.
- Zaugg, H., Tateishi, I., Davies, R., Parkinson, A., Magleby, S., & Jensen, C. G. (2010, Mar). *Global/virtual team competency acquisition in mechanical engineering students.* Poster session presentation at the annual David O. McKay School of Education Mentored Research Conference, Provo, UT.
- Davies, R. (2009, Nov). *Understanding Technology Literacy: A framework for evaluating educational technology integration.* Paper presented at the annual conference of the American Evaluation Association, Orlando, FL.
- Davies, R. (2009, Nov). *Evaluating What Works in Education: Causation or Context.* Paper presented at the annual conference of the American Evaluation Association, Orlando, FL.
- Davies, R. (2009, Nov). *Proven and Creative Strategies and Techniques for Teaching Evaluation.* Demonstration session presented at the annual conference of the American Evaluation Association, Orlando, FL.
- Ouderkirk, S., & Davies, R. (2009, Nov). *The Influence of Human Controllers in Educational Simulations.* Paper presented at the annual conference of the American Evaluation Association, Orlando, FL. [Student Research]
- Velasquez, A., & Davies, R. (2009, Nov). *Cultural and Language Barriers When Conducting Indigenous Evaluations in the Third World Context.* Paper presented at the annual conference of the American Evaluation Association, Orlando, FL.
- Davies, R. (2009, Oct). *Understanding Technology Literacy: A framework for assessing educational technology integration.* Paper presented at the Association of Educational Communication and Technology annual conference, Louisville, KY.
- Davies, R. (2008, Mar). *Understanding the Diminishing Benefits Full Day Kindergarten.* Presented at the American Educational Research Association annual conference, New York, NY.
- Davies, R., & Linton, J. (2008, Mar). *Understanding Dispositional Dissonance.* Paper presented at the Michigan Academy of Science, Arts & Letters Annual Meeting at Western Michigan University, Kalamazoo, MI.
- Sharp, S. & Davies, R. (2008, Mar). *All-Day Kindergarten and Academic Literacy Achievement.* Paper presented at the Michigan Academy of Science, Arts & Letters Annual Meeting at Western Michigan University, Kalamazoo, MI.



- Nash, D. & Davies, R. (2008, Mar). *Around the Block: Block scheduling and math comprehension*. Paper presented at the Michigan Academy of Science, Arts & Letters Annual Meeting at Western Michigan University, Kalamazoo, MI. [Student Research]
- Mckenzie, S. & Davies, R. (2008, Mar). *Differentiated Instruction: An assessment of teacher knowledge and use*. Paper presented presentation at the Michigan Academy of Science, Arts & Letters Annual Meeting at Western Michigan University, Kalamazoo, MI. [Student Research]
- Davies, R. (2007, Apr). *Educational Policy: Leaving Children Behind by Definition*. Paper presented at the Midwest Political Science Association Annual National Conference Chicago, IL.
- Davies, R., Carpenter, K., & Scott, M. (2007, Mar). Michiana MathTracks: Teaching Basic Math Skills. Paper presented at the Michigan Academy of Science, Arts & Letters Annual Meeting Ferris State University, Big Rapids, MI.
- Bevacqua, S., & Davies, R. (2007, Mar). Literacy Instruction In Kindergarten Utilizing The Project Approach. Paper presented at the Michigan Academy of Science, Arts & Letters Annual Meeting Ferris State University, Big Rapids, MI. [Student Research]
- Davies, R. (2006, Oct). Improving the Quality of Evaluation Research at the University Level Presented at the annual conference of the American Evaluation Association, Portland, OR
- Davies, R. (2006, Apr). Integrating Technology into the Science Classroom. Presented at the American Educational Research Association, San Francisco, CA.
- Orina, E., & Davies, R. (2006, Mar). The Unintended Consequences of NCLB. Presented at the annual conference of the Michigan Academy of Science, Arts, and Letters (MASAL), Rochester, MI. [Student Research]
- Davies, R., Peterson, N.J., Spitzer, B. (2006, Mar). Data Driven Decisions: Understanding your data collection instruments. Presented at the annual conference of the Michigan Academy of Science, Arts, and Letters (MASAL), Rochester, MI.
- Davies, R. (2005, Oct). Developing Useful Likert Scales to Evaluate Average Group Response. Presented at the joint annual conference of the American Evaluation Association and Canadian Evaluation Society, Toronto, ON, Canada.
- Davies, R., Peterson, N.J., Spitzer, B. (2005, Oct). Assessment Literacy for Respondents: Improving the reliability of group data. Presented at the American Evaluation Association, Toronto, ON, Canada.
- Peterson, N.J., Davies, R., Spitzer, B. (2005, Oct). Course Evaluation and Student Satisfaction: What Are They Really Saying? Presented at the MWERA annual meeting, Columbus, OH.
- Davies, R., Williams, D., & Yanchar, S. (2004, Nov). The Use of Randomization in Educational Research and Evaluation: A critical analysis of underlying assumptions, Paper presented at the American Evaluation Association, Atlanta, GA.
- Davies, R. (2004, Jun). Evaluating the Development of a Virtual Learning Network. Paper presented at the Association of Educational Communication and Technology summer institute, Denton, TX.
- Davies, R., Williams, D. (2003, Nov). To Prove or Improve? Paper presented to the American Evaluation Association regarding issues of evaluation and the No Child Left Behind Act, Reno, NV.
- Davies, R. (2003, Oct). The School Choice Myth. Paper prepared for MWERA concerning school choice and charter schools, Columbus, OH.

- Davies, R. (2003, April). Learner Intent and Online Courses. Paper presented to the American Educational Research Association, Chicago, IL.
- Davies, R. (2002, Nov). Exploring the Meaning and Function of Learner Intent for Students Taking Online Courses. Roundtable presentation at the Association of Educational Communication and Technology, Dallas, TX.
- Davies, R, Osguthorpe, R.T. (2002, July). Reflecting on Learner Intent. Paper presented at the bi-annual meeting of the Institute for Reflective Practice, Gloucester, England.
- Davies, R & Merrill, P. (2002, June). Web Presence: Current Event or Historical Archive. Paper presented at the Ed-Media Conference regarding web page automation and content management, Denver, CO.

## **Graduate Work**

- Davies, R. (2002). Exploring the Meaning and Function of Learner Intent for Students taking Online University Courses. Published by Saarbrücken, Germany: VDM Publishing House Ltd., 2009.
- Davies, R. & Mendenhall, R. (1998). Evaluation Comparison of Online and Classroom Instruction for HEPE 129 - Fitness and Lifestyle Management Course. Doctoral Project. ERIC no. ED427752.
- Davies, R. (1997). The development and evaluation of an instructional system for teaching computer animation. Unpublished Masters Project. BYU.

## **Presentations & Workshops**

- IPT seminar (Mar 2015) Data Visualization Basics, Provo, UT
- Associates Meeting Presentation (Feb 2015) Data Visualization Basics, Provo, UT
- IPT seminar (Feb 2014) Designing Intelligent Tutoring Systems using Activity Trace Data, Provo, UT
- Tuning Symposium (June 2013) Evaluating a Tuning Project, Indianapolis, IN
- IPT seminar (Dec 2010) Trends in Distance Education Research, Provo, UT
- Associates Meeting Presentation (Mar 2010) Motivation, Provo, UT
- IPT seminar (Mar 2009) Scientific Rigor and Randomization, Provo, UT
- AEA Guiding Principles workshop (Jan, 2007) Indiana Evaluators Association, Indianapolis, IN
- Assessment Workshop (Oct 2006) for faculty at Brown Mackie College. South Bend, IN.
- Research Ethics and IRB issues (Apr, 2005) Indiana Evaluators Association, Indianapolis, IN
- NCATE report – Student Teaching Survey Results (Apr, 2005) IUSB SOE meeting, South Bend, IN

- IUEVAL – online course evaluation system (Nov, 2005) IUSB SOE meeting, South Bend, IN
- Creating Effective Educational Materials (2002) Utah Dietetic Association Annual Meeting
- Student Run Activities: The dwonline experience (2000) HCT Seminar, Dubai. UAE.
- Making Worthwhile Webs (1999) Faculty workshop, Dubai Women’s College. UAE.
- Working with Webs (1999) A 5 session teacher in-service, Modern Indian High school. UAE.
- Using Front Page (1998) A three day teacher in-service, Dubai Women’s College. UAE.
- Managing a CTS Classroom (1997). Session presented at the CTS Symposiad
- CTS Classroom management and materials production. (1996). Teacher In-service, Grand Center High School, Cold Lake Alberta, Canada.
- Computer Basics for High School Teachers (1995) A three session district seminar. Northern Lights School District, Cold Lake, Alberta, Canada.
- Technology in Schools (1991). Presentation to Northern Lights School board members. Bonnyville, Alberta Canada.

## Funded Grants, Evaluations & Contracts

- July, 2015  
to  
June, 2018      **External Evaluator/Consultant.** Project: CCE STEM research project. NSF-supported project. A Longitudinal Study of Social and Ethical Responsibility Among Undergraduate Engineering Students.
- July, 2013  
to  
June, 2016      **External Evaluator.** Project: New Curriculum in Applied and Computation Mathematics. NSF project from a TUES Type 2 grant.
- June, 2013  
to  
June, 2015      **External Evaluator.** Junior Core project. Evaluation of project based curriculum being implemented in the Electrical Engineering program at BYU.
- July, 2011  
to  
June, 2014      **External Evaluator.** Utah Tuning 2 project. Study funded by Lumina Foundation to help discipline faculties move from definition of their discipline to establishing learning outcomes in curriculum, teaching, and assessment. This evaluation is being conducted with the Utah Board of Regents’ Task Force on General Education
- June, 2013  
to  
Oct, 2013      **External Evaluator.** Food Managers Certification Test Validation. Study funded by AboveTraining.com to validate a certification assessment instruments.
- May, 2011  
to  
August, 2012      **External Evaluator.** Food Workers Safety Certification Evaluation. An evaluation funded by AboveTraining.com to evaluate and review certification course, assessment instruments, and procedures.
- Sept, 2009  
to  
Sept, 2012      **External Evaluator.** Designing a Course to Develop Global Competencies for Engineering Students. Study funded by a National Science Foundation grant. Implemented by the Mechanical Engineering department at BYU.
- August, 2010  
to  
August, 2011      **External Evaluator.** 9th grade PBL/Technology Project: Indianapolis Public Schools. Study funded by Indiana Department of Education enhancing education through technology (Ed. Tech) grant.

June, 2008  
to  
Dec, 2010  
**External Evaluator.** RET@ND Project Evaluation: Notre Dame University. Study funded by a National Science Foundation, Math and Science initiative grant to provide research experience to teachers.

August, 2004  
to  
August, 2009  
**External Evaluator.** One-to-One Science Project Evaluation: Indianapolis Public Schools. Study funded by Indiana Department of Education enhancing education through technology (Ed. Tech) grant.

Nov., 2004  
to  
Dec., 2005  
**Co-Principal Investigator:** Developing Evaluation Mechanisms for Stakeholder Satisfaction with Teacher Education Program Candidates and Program Completers. Study funded through an Indiana University assessment grant.

May, 2002  
to  
June, 2005  
**Lead Researcher.** Evaluation of Ripley County (Indiana) Community Alliances to Promote Education Initiative: Ripley County Community Foundation. Study funded by the Lilly Endowment to evaluate the installation of a virtual learning network.

July, 2003  
to  
Apr, 2004  
**Lead Researcher,** Statistical Analysis and Report Writing. Evaluation of Learning Perspectives Initiative (year 4): Foellinger Foundation. Summative evaluation of a multi-year initiative designed to improve academic achievement.

Oct, 2003  
to  
Oct, 2004  
**Lead Researcher,** Statistical Analysis and Report Writing. Indiana Reading First Evaluation: Indiana Department of Education. The evaluation of a multi year contract to evaluate the Reading First Program in Indiana.

Nov, 2002  
to  
Sept, 2003  
**Statistical Analysis and Report Writing.** OhioReads Evaluation Year3: Ohio Department of Education. The evaluation of a multi year initiative designed to determine the effects of the OhioReads Reading Program on Academic Achievement

Jun, 2003  
to  
Sept, 2003  
**Statistical Analysis and Report Writing.** Reading Rescue: The Literacy Trust Inc. Evaluation of the impact of the Reading Rescue Tutoring Program on students' reading achievement.

Nov, 2002  
to  
May, 2003  
**Lead Researcher.** Community Schools in Ohio: Ohio Department of Education and Legislative Office of Education Oversight. Research evaluating parental satisfaction and school choice.

Jan 2003  
**Statistical Analysis and Report Writing.** Michigan Small Class Size Initiative (year 4): Michigan Department of Education. The evaluation of a multi year initiative designed to improve academic achievement by reducing class size.

Jan 2002  
to  
Dec 2004  
**Research Consultant.** Data Driven Decisions and the use of Web-Based School Improvement Sites: North Central Regional Education Laboratory. Research to better understanding data driven school improvement.

Nov 2002  
**Statistical Analysis.** Evaluation of Learning Perspectives Initiative (year 3): Foellinger Foundation. A multi-year initiative designed to improve academic achievement

Jan 1992  
to  
June 1992  
**Lead Evaluator.** Overall technology readiness and use evaluation: Lakeland Catholic School District. Evaluation of schools technology capacity.

## Additional Grantsmanship and Proposal Writing

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June, 2015	<b>External Evaluator.</b> Project: <u>Pathways for Personalized Online Learning</u> . A developmental grant applied for by Westminster College and funded by the US DOE for the Improvement of Postsecondary Education.	Not Funded
Apr, 2015	<b>External Evaluator.</b> Project: <u>Signal Processing Collaboration</u> . NSF PIRE proposal to fund an international collaboration and educational effort involving workshops and cross-institution visits.	Not funded
Aug, 2013	<b>External Evaluator.</b> Project: <u>Imagine Learning's ELL Language Development Program Evaluation</u> . Institute of Educational Science proposal for an educational technology efficacy grant.	Not funded
April, 2013	<b>External Evaluator.</b> Project: <u>Exploring Earth from Space and Space from Earth</u> . NASA proposal to fund a project at the Thanksgiving Point Center for Creativity.	Not funded
Aug, 2012	<b>External Evaluator.</b> Project: <u>Junior Core</u> . NSF proposal to fund a curriculum study in the electrical engineering department at BYU.	Not funded
Dec, 2012	<b>External Evaluator.</b> One-to-One Literacy initiative. NSF proposal submitted by Indianapolis Public Schools. Not funded.	Not funded

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## Instructional Products

- Davies. R. (1999). Computer Literacy - Comp 1130. Higher Colleges of Technology, UAE.
- Davies. R. (1999). Computer Literacy - Comp 1231. Higher Colleges of Technology, UAE.
- Davies. R. (1998). Systems Administration - Comp 3342. Higher Colleges of Technology, UAE.
- Davies. R. (1998). Systems Administration - Comp 3344. Higher Colleges of Technology, UAE.
- Davies. R. (1996). Beginning Animation. CTS Curriculum Clearinghouse. Acme, Alberta.
- Davies. R. (1996). Programming in Pascal. CTS Curriculum Clearinghouse. Acme, Alberta.

## Educational Licenses and Certifications

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Alberta Teachers Association Teaching Certification  
Secondary Education, Mathematics and Computer Science

## Related Professional Activities and Assignments

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### Professional Memberships

- Alberta Teachers Association (ATA)
- American Evaluators Association (AEA)
- Association of Educational Communication and Technology (AECT)

### Editorial Work

- Editorial Review Board for the Education Sciences Journal

- Journal manuscript reviewer for several journals including American Journal of Evaluation, Interactive Learning Environments, European Journal of Engineering Education, The Teacher Educator, and a few others
- Served on the manuscript review committee for volume 3 of the Online Assessment, Measurement and Evaluation: Emerging Practices.
- Selected to review and provide feedback concerning several Educational Research textbooks and Evaluation Textbooks proposals by multiple publishers.
- Conference proposal reviewer AERA, AECT, and AEA conference proposal reviewer

### University Service

- **IPT Online Information Committee** (2015-present). Responsible for the creation and maintenance of an IP&T Graduate Student Handbook, oversight of IPT mYlink Portal, and the design and maintenance of information on the IP&T website.
- **IPT Internship Coordinator** (2008-present). Responsible for advising and approving student internships in the Instructional Psychology & Technology department.
- **IPT Scholarship Coordinator** (2008-2015). Responsible for reviewing and approving student scholarships in the Instructional Psychology & Technology department.
- **IPT Department Project Rubrics committee** (Oct 2010-Dec 2010) – Responsible for developing grading rubrics for IPT evaluation and assessment projects
- **IPT Department Course Rotation committee** (2010-2015) – Responsible for organizing, aligning courses and keeping track of courses taught in the department.
- **IPT Department Minimum Student Progress committee** (2008-2009) – Responsible for reviewing and suggesting revisions to department policy on determining student progress in their program.
- **MSE Research and Grants committee** (Sep 2013-present) – Responsible for reviewing ORCA, MEG, and MSE technology development grant proposals.
- **MSE Research Course committee** (Sep 2010-Aug 2013) – Responsible for making recommendations for research and statistics course sequence and consolidation within the school of education.
- **MSE ADE Associates group** (Sep 2010-Jun 2011) – This group is associated with the BYU-Public School Partnership. This group met monthly to review the Agenda for Education in a Democracy (AED) which is the basis for the association.
- **MSE Co-chair course development committee** (Dec 2010-Fall 2011) – Responsible for developing IPT 213 Foundations of Instructional Design and Assessment course.
- **BYU MyMap Program Evaluation** (Mar 2012) – Completed the statistical analysis and wrote a report for an objectives oriented evaluation being conducted for the MyMap initiative at BYU.
- **BYU-Public School Partnership Committee member** (2011). Assisted in the process of developing a revised Vision and Commitment Statement for the Brigham Young University-Public School Partnership. The Governing Board officially approved the Vision and Commitment Statement in September 2012.
- **IUSB assessment committee** (2004-2008). Responsibilities include assisting the SOE assessment committee in submitting their revised assessment plans, reviewing applications for assessment grants, and evaluating third year review presentation from various university departments.

- **IUSB SOE assessment committee** (2005-2008). My contributions included the organizing the implementation of the online course evaluation system used by the SOE for Fall 2005 course evaluations. Development of revised course evaluation instrument.
- **SOE NCATE Standard 2 Committee** (2004-2006). This committee is responsible for developing and implementing the unit assessment system for SOE NCATE accreditation.
- **SOE Technology Committee** (2004-2006). This committee is responsible for making suggestions about software and hardware needs.

### **Related Service and Experience**

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2011 – 2013	<b>Chair for the AEA Teaching of Evaluation TIG Leadership team</b>
2010 - 2011	<b>Program Chair for the AEA Teaching of Evaluation TIG Leadership team</b> responsible for conference program session review and selection, promoting TIG membership and activities.
2005 - 2007	<b>American Evaluation Association (AEA) Ethics Committee Task Force</b> member mandated to develop training modules on the revised Guiding Principles for Evaluators and ethics in the practice of evaluation and to develop additional case studies for the training modules.
2003	<b>AEA Executive Committee Task Force</b> member mandated to draft a response to the NCLB prescription for scientifically based evaluation methods.
2002	<b>Website Programmer</b> – Faculty, Alumni and Student interactive web directory. <a href="http://education.byu.edu/ipt/php/students/index.php">http://education.byu.edu/ipt/php/students/index.php</a>
1998 - 2001	<b>Team Leader</b> for the Computer Information Processing CD year 2 program at Dubai Women’s College.
1999 - 2000	<b>Computer Help Desk Course Coordinator</b> for the Higher Colleges of Technology. Developed curriculum, evaluations and instructional materials for the eleven HCT colleges. Assisted new teachers getting started.
1998 - 1999	<b>Contract Instructional Designer</b> for several courses at the Higher Colleges of Technology.
1993 - 1996	<b>Member of the Alberta CTS development team</b> for the Communication Technology Assessment Panel and Field Review
Summer 1996	<b>Developed course writers manual</b> for BYU independent Study.

### **Awards**

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1995	Nominated for the Prime Minister’s Award for Teaching Excellence in Science, Technology and Mathematics. Cold Lake, AB, Canada.
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### **Additional Capability and Skills**

#### **Languages**

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Reading and basic speaking competence in Spanish.