

# David A. Walker, Ph.D.

---

- Associate Dean for Academic Affairs, College of Education
- Professor of Educational Technology, Research, and Assessment
- Editor: *General Linear Model Journal*
- Lagomarcino Laureate

Northern Illinois University  
College of Education  
325 Graham  
DeKalb, IL 60115  
815-753-7886  
dawalker@niu.edu

## ACADEMIC DEGREES

- Ph.D. - Iowa State University of Science and Technology
- M.A. - Iowa State University of Science and Technology
- B.A. - St. Olaf College

## UNIVERSITY POSITIONS

- 2016 – Present: Associate Dean for Academic Affairs, College of Education, Northern Illinois University
- 2012 – Present: Professor, Department of Educational Technology, Research, and Assessment, Northern Illinois University
- 2006 – 2012: Associate Professor, Department of Educational Technology, Research, and Assessment, Northern Illinois University
- 2006 – 2011: Coordinator of Assessment, College of Education, Northern Illinois University
- 2003 – 2006: Assistant Professor, Department of Educational Technology, Research, and Assessment, Northern Illinois University
- 2000 – 2003: Assistant Professor, Department of Educational Technology and Research, Florida Atlantic University
- 1999 – 2000: Post-Doctorate, Research Institute for Studies in Education, Iowa State University of Science and Technology

## SCHOLARSHIP

### REFEREED JOURNAL PUBLICATIONS

1. **Walker, D. A.**, & Smith, T. J. (2017). Computing robust, bootstrap-adjusted fit indices for use with nonnormal data. *Measurement and Evaluation in Counseling and Development*, 50(1-2), 131-137.
2. Al-Shahrani, H. A., & **Walker, D. A.** (2016). An exploratory, descriptive study of the attitudes of instructors and students toward the use of asynchronous online discussion at a female university in Saudi Arabia. *Mid-Western Educational Researcher*, 28(3), 247-263.
3. Martin, A. L., Reeves, T. D., Smith, T. J., & **Walker, D. A.** (2016). Computer proficiency for online learning: Factorial invariance of scores among teachers. *Mid-Western Educational Researcher*, 28(3), 232-246.
4. Mohammed, S. F., **Walker, D. A.**, Conderman, G., & Pisapia, J. (2016). Implementing scientific-based research: Learning from the history of the Reading First program. *Educational Research for Policy and Practice*, 15(1), 27-40.
5. **Walker, D. A.** (2016). Confidence intervals for Kendall's tau with small samples. *Journal of Modern Applied Statistical Methods*, 15(1), 868-883.
6. **Walker, D. A.**, & Smith, T. J. (2016). Nine pseudo  $R^2$  indices for binary logistic regression models. *Journal of Modern Applied Statistical Methods*, 15(1), 848-854.
7. Conderman, G., & **Walker, D. A.** (2015). Assessing dispositions in teacher preparation programs: Are candidates and faculty seeing the same thing? *The Teacher Educator*, 50(3), 215-231.
8. Hong, C., & **Walker, D. A.** (2015). A confirmatory factor analysis of the Technology Acceptance Model. *General Linear Model Journal*, 41(2), 22-29.
9. Summers, K. H., Reeves, T. D., Schwartz, J., & **Walker, D. A.** (2015). Understanding student growth measures: A primer for school business managers. *The Journal of School Business Management*, 27(1), 22-29.
10. Summers, K. H., Reeves, T. D., **Walker, D. A.**, & Schwartz, J. (2015). Professional development for educational leaders in the era of performance evaluation reform. *School Leadership Review*, 10(1), 33-43.
11. **Walker, D. A.** (2015). Two group program for Cohen's  $d$ , Hedges'  $g$ ,  $\eta^2$ ,  $R_{adj}^2$ ,  $\omega^2$ ,  $\varepsilon^2$ , confidence intervals, and power. *Journal of Modern Applied Statistical Methods*, 14(2), 282-292.

12. Muehsler, H. E., **Walker, D. A.**, & Smith, T. J. (2014). A note on the use of Cohen's  $d$  and Common Language Effect. *Multiple Linear Regression Viewpoints*, 40(1), 17-22.
13. Paver, J., **Walker, D. A.**, & Hung, W. C. (2014). Adjunct faculty characteristics that may predict intention to integrate technology into instruction. *Community College Journal of Research and Practice*, 38(9), 859-872.
14. Paver, J., **Walker, D. A.**, & Hung, W. C. (2014). Factors that predict the integration of technology for instruction by community college adjunct faculty. *Community College Journal of Research and Practice*, 38(1), 68-85.
15. **Walker, D. A.** (2014). A program for the estimated standard error of the difference in slopes from separate regressions. *Multiple Linear Regression Viewpoints*, 40(2), 28-34.
16. Conderman, G., Johnston-Rodriguez, S., Hartman, P., & **Walker, D. A.** (2013). Honoring voices from beginning special educators for making changes in teacher preparation. *Teacher Education and Special Education*, 36(1), 65-76.
17. Conderman, G., **Walker, D. A.**, Neto, J. R., & Kackar-Cam, H. (2013). Student and teacher perceptions of middle school climate. *The Clearing House: A Journal of Educational Strategies, Issues and Ideas*, 86(5), 184-189.
18. Nathans, L. L., Nimon, K., & **Walker, D. A.** (2013). Use of the multiple lens approach to multiple regression findings with a national dataset. *Multiple Linear Regression Viewpoints*, 39(1), 25-33.
19. **Walker, D. A.**, Smith, M. C., & Hamidova, N. I. (2013). A structural analysis of the Attitudes Toward Science scale: Students' attitudes and beliefs about science as a multi-dimensional composition. *Multiple Linear Regression Viewpoints*, 39(2), 38-48.
20. Newell, P. A., Elmore, P. B., & **Walker, D. A.** (2012). Multiple linear regression articles and the article publication process. *Multiple Linear Regression Viewpoints*, 38(1), 42-48.
21. **Walker, D. A.**, & Downey, P. M. (2012). Leadership for learning. *The Educational Forum*, 76(1), 13-24.
22. Moosai, S., **Walker, D. A.**, & Floyd, D. L. (2011). Using student and institutional characteristics to predict graduation rates at community colleges: New developments in performance measures and institutional effectiveness. *Community College Journal of Research and Practice*, 35(10), 802-816.
23. **Walker, D. A.** (2011). A note on cost-benefit analysis. *Multiple Linear Regression Viewpoints*, 37(2), 29-33.

24. **Walker, D. A.** (2010). All possible kappa coefficient values and cell distribution combinations in a 2 x 2 matrix: The case of the small sample. *Multiple Linear Regression Viewpoints*, 36(2), 40-44.
25. **Walker, D. A.** (2010). A confirmatory factor analysis of the Attitudes Toward Research scale. *Multiple Linear Regression Viewpoints*, 36(1), 17-26.
26. **Walker, D. A.**, Downey, P. M., & Cox-Henderson, J. (2010). REAL camp: A school-university collaboration to promote post-secondary educational opportunities among high school students. *The Educational Forum*, 74(4), 297-304.
27. Catullo, L. A., **Walker, D. A.**, & Floyd, D. L. (2009). The status of crisis management at NASPA member institutions. *NASPA Journal*, 46(2), 301-324.
28. Melin, L. S., & **Walker, D. A.** (2009). A data-driven dispositions model for teacher candidates and program review. *Action in Teacher Education*, 31(1), 58-74.
29. Mohammed, S. F., Pisapia, J., & **Walker, D. A.** (2009). Optimizing state policy implementation: The case of the scientific based research components of the NCLB Act. *Current Issues in Education*, 11(8), 1-20.
30. **Walker, D. A.** (2009). The SSER method: Replicability possibilities within the general linear model extended to the independent samples *t*-test, one-way ANOVA, and chi-square. *Multiple Linear Regression Viewpoints*, 35(2), 10-15.
31. **Walker, D. A.** (2008). Estimating how many observations are needed to obtain a required level of reliability. *Journal of Modern Applied Statistical Methods*, 7(1), 152-157.
32. **Walker, D. A.** (2008). Impact of rater disagreement on chance-corrected inter-rater agreement indices with equal and unequal marginal proportions. *Multiple Linear Regression Viewpoints*, 34(1), 35-39.
33. **Walker, D. A.**, Downey, P. M., Kuehl, D. (2008). Success by degrees: Addressing teacher shortages through a school-community college-university partnership. *Community College Journal of Research and Practice*, 32(12), 959-969.
34. **Walker, D. A.**, Downey, P. M., Sorensen, C. K. (2008). E-Learning modules for teacher development: Project REAL. *TechTrends*, 52(5), 59-62.
35. **Walker, D. A.**, & Mohammed, S. F. (2008). Two plausible indicators to use with state accountability measures: An analysis of NAEP math data. *The Educational Forum*, 72(2), 177-186.

36. **Walker, D. A.**, Sorensen, C. K., & Downey, P. M. (2008). PARTNERS: A framework for a partnership model in a high-need, urban school district. *Success in High-Need Schools*, 4(1), 1-8.
37. **Walker, D. A.**, Sorensen, C. K., Smaldino, S. E., & Downey, P. M. (2008). A model for a professional development school intervention: REAL findings. *School-University Partnerships*, 2(1), 6-26.
38. Lieberman, J. M., & **Walker, D. A.** (2007). Connecting curriculum and instruction to national teaching standards. *The Educational Forum*, 71(3), 274-282.
39. **Walker, D. A.** (2007). A comparison of eight shrinkage formulas under extreme conditions. *Journal of Modern Applied Statistical Methods*, 6(1), 162-172.
40. **Walker, D. A.** (2007). Conducting research in student services: Realize the Student Learning Imperative. *NetResults*, 7, 1-8.
41. **Walker, D. A.** (2007). Estimation methods for cross-validation prediction accuracy. *Multiple Linear Regression Viewpoints*, 33(1), 32-38.
42. **Walker, D. A.** (2007). The use of random selection in *NASPA Journal* articles: Encouraging initial findings for student affairs research. *NetResults*, 6, 1-7.
43. Acker-Hocevar, M., Cruz-Janzen, M. I., Wilson, C. L., Schoon, P. L., & **Walker, D. A.** (2006). The need to re-establish schools as dynamic positive human energy systems that are non-linear and self-organizing: The learning partnership tree. *International Journal of Learning*, 12(10), 255-267.
44. **Walker, D. A.** (2006). A comparison of the Spearman-Brown and Flanagan-Rulon formulas for split half reliability under various variance parameter conditions. *Journal of Modern Applied Statistical Methods*, 5(2), 443-451.
45. **Walker, D. A.** (2006). The statistically significant exact replication method: A programming and conceptual extension. *Mid-Western Educational Researcher*, 19(4), 7-11.
46. Wilson, C. L., Acker-Hocevar, M., Cruz-Janzen, M. I., Schoon, P. L., **Walker, D. A.**, & Brown, A. (2006). The proliferation of marginal research for dollars. *International Journal of Learning*, 13(2), 85-93.
47. Wilson, C. L., **Walker, D. A.**, Cruz-Janzen, M. I., Acker-Hocevar, M., & Schoon, P. L. (2006). A systems alignment model for evaluating school practices. *International Journal of Learning*, 12(7), 303-310.
48. Clyde, C., **Walker, D. A.**, & Floyd, D. L. (2005). An experiential learning program for Holocaust education. *NASPA Journal*, 42(3), 326-341.

49. Sorensen, C., Smaldino, S., & **Walker, D. A.** (2005). The perfect study: Demonstrating 'what works' in teacher preparation using 'gold standard' research designs in education. *TechTrends*, 49(4), 16-19.
50. **Walker, D. A.** (2005). Bias affiliated with two variants of Cohen's d when determining  $U_1$  as a measure of the percent of non-overlap. *Journal of Modern Applied Statistical Methods*, 4(1), 100-105.
51. **Walker, D. A.** (2005). A graph is worth a thousand words? The publication rate of graphs in the *JCSD*, 1999 to 2004. *Journal of College Student Development*, 46(6), 689-698.
52. **Walker, D. A.** (2005). An SPSS matrix for determining effect sizes from three categories: r and functions of r, differences between proportions, and standardized differences between means. *Journal of Modern Applied Statistical Methods*, 4(1), 333-342.
53. **Walker, D. A.** (2005). The standard error of a proportion for different scores and test length. *Practical Assessment, Research and Evaluation*, 10(5), 1-9.
54. **Walker, D. A.**, & Mohammed, S. F. (2005). A resource inputs model examining NAEP reading score change from 1994-1998: State median household income and free and reduced-price lunch percentages matter. *Mid-Western Educational Researcher*, 18(4), 2-10.
55. Clyde, C., Floyd, D. L., & **Walker, D. A.** (2004). Experiential learning: Challenges, opportunities, and policy issues for student affairs leaders. *NASAP Journal*, 7(1), 93-104.
56. **Walker, D. A.** (2004). An analysis of funding allocations to student services at tribal colleges and universities, 1991 to 1995: Years of leverage? *Journal of College Student Development*, 45(2), 221-230.
57. **Walker, D. A.** (2004). The importance of drawing meaningful conclusions from data: A review of the literature with meta-analytic inquiry. *NASPA Journal*, 41(3), 452-469.
58. **Walker, D. A.** (2004). Ridge regression as an alternative to ordinary least squares: Improving prediction accuracy and the interpretation of beta weights. *Association for Institutional Research Professional File*, 92(2), 1-9.
59. **Walker, D. A.** (2004). Validation studies: Matters of dimensionality, accuracy, and parsimony with predictive discriminant analysis and factor analysis. *Journal of Modern Applied Statistical Methods*, 3(1), 186-199.
60. Floyd, D. L., & **Walker, D. A.** (2003). Community college teacher education: A typology, challenging issues, and state views. *Community College Journal of Research and Practice*, 27(8), 643-663.

61. Floyd, D. L., **Walker, D. A.**, & Farnsworth, K. (2003). Global education: An emerging imperative for community colleges. *International Education*, 33(1), 5-21.
62. **Walker, D. A.** (2003). Converting Kendall's tau for correlational or meta-analytic analyses. *Journal of Modern Applied Statistical Methods*, 2(2), 525-530.
63. **Walker, D. A.** (2003). Suppressor variable(s) importance within a regression model: An example of salary compression from career services. *Journal of College Student Development*, 44(1), 127-133.
64. **Walker, D. A.**, & Floyd, D. L. (2003). A model for creating and communicating a shared vision. *College Student Journal*, 37(3), 435-437.
65. **Walker, D. A.**, & Young, D. Y. (2003). Example of the impact of weights and design effects on contingency tables and chi-square analysis. *Journal of Modern Applied Statistical Methods*, 2(2), 425-432.
66. **Walker, D. A.**, Reason, R. D., & Robinson, D. C. (2003). Salary predictors and equity issues for student affairs administrators at public and private institutions: From dean to director of security. *NASPA Journal*, 40(2), 134-152.
67. Floyd, D. L., **Walker, D. A.**, & Hurd, D. (2002). Community college study abroad programs: A learning college imperative. *International Education*, 32(1), 58-71.
68. Reason, R. D., **Walker, D. A.**, & Robinson, D. C. (2002). Gender, ethnicity, and highest degree earned as salary determinants for senior student affairs officers at public institutions. *NASPA Journal*, 39(3), 251-265.
69. **Walker, D. A.** (2001). Incongruities in salaries and personnel representation for housing/residence life directors at public and private institutions. *The Journal of College and University Student Housing*, 30(1), 25-32.
70. **Walker, D. A.** (2001). Salary equity and personnel proportionality for directors of international programs at public and private institutions: What are the differences? *Phi Beta Delta International Review*, 11(1), 71-84.
71. **Walker, D. A.** (2001). Student affairs professionals' perceptions of international students at small colleges. *International Education*, 30(2), 50-63.
72. **Walker, D. A.** (2001). Through the eyes of practitioners: Perception of international students. *Phi Beta Delta International Review*, 11(1), 11-21.
73. **Walker, D. A.** (2001). Variations in salaries and diversity: Representation of financial aid directors at public and private institutions. *College & University Journal*, 77(1), 9-14.

74. **Walker, D. A.** (2001). What factors influence admission directors' salaries? *The Journal of College Admission*, 173(1), 18-25.
75. **Walker, D. A.**, & Schultz, A. M. (2001). Reaching for diversity: Recruiting and retaining Mexican-American students. *Journal of College Student Retention: Research, Theory & Practice*, 2(4), 313-325.
76. Kemis, M., & **Walker, D. A.** (2000). The a-e-I-o-u approach to program evaluation. *Journal of College Student Development*, 41(1), 119-122.
77. **Walker, D. A.** (2000). An evaluation plan for student-run campus programs. *ISPA Journal*, 12(1), 50-70.
78. **Walker, D. A.** (2000). The international student population: Past and present demographic trends. *Journal of Instructional Psychology*, 27(2), 77-79.
79. **Walker, D. A.** (2000). Net.Collect: Internet-based survey research. *Assessment Update: Progress, Trends, and Practices in Higher Education*, 12(6), 14.
80. **Walker, D. A.** (1999). Collaborative Kenyan and American approach to study abroad orientation. *International Journal of Educational Reform*, 8(3), 280-284.
81. **Walker, D. A.** (1999). International education leaders: A profile of student affairs professionals who work with international students at private, four-year liberal arts institutions. *International Education Forum*, 19(2), 69-72.
82. **Walker, D. A.** (1999). A model for assessing assessment activities. *College Student Journal*, 33(3), 439-443.
83. **Walker, D. A.** (1999). The organization and administration of study abroad centers in two institutions. *International Education*, 29(1), 5-15.
84. **Walker, D. A.** (1999). Survey Pro: Essential technology for conducting survey research. *Assessment Update: Progress, Trends, and Practices in Higher Education*, 11(4), 6.



### REFEREED ARTICLES IN-PRESS

85. Al-Shahrani, H. A., & **Walker, D. A.** (in press). Predictors, moderator, and internal score structure (validity and reliability) affiliated with the UTAUT model. *General Linear Model Journal*.
86. Smith, T. J., **Walker, D. A.**, & McKenna, C. M. (in press). A coefficient of discrimination for use with nominal and ordinal regression models. *The American Statistician*.
87. **Walker, D. A.** (in press). The Pearson Product–Moment Correlation Coefficient and adjustment indices: The Fisher Approximate Unbiased estimator and the Olkin-Pratt adjustment. *Journal of Modern Applied Statistical Methods*.
88. **Walker, D. A.**, Reeves, T. D., & Smith, T. J. (in press). Confirmation of the Data Driven Decision-Making Efficacy and Anxiety Inventory’s (3D-MEA) score factor structure among teachers. *Journal of Psychoeducational Assessment*.

### MANUSCRIPTS UNDER PEER REVIEW

89. Lukaszuk, J. M., **Walker, D. A.**, Shokrani, M., Umoren; J., & Norman, E. (2017). *Assessment of urinary methylmalonic acid levels in elderly on proton pump inhibitors*. Manuscript submitted for publication.
90. Murawska, J. M., & **Walker, D. A.** (2017). *Visual tools for eliciting connections and cohesiveness in mixed methods research*. Manuscript submitted for publication.

### REFEREED BOOK

91. Ary, D., Jacobs, L. C., Sorensen, C. K., & **Walker, D. A.** (2013). *Introduction to research in education* (9th ed.). Belmont, CA: Wadsworth Publishing.

## REFEREED BOOK CHAPTERS

92. **Walker, D. A.**, & Downey, P. M. (2017). Literacy across the curriculum: Collaborative initiatives and practices of a professional development school partnership. In J. Ferrara, J. L. Nath, I. N. Guadarrama, & R. Beebe (Eds.). *Expanding opportunities to link research and clinical practice: A volume in research in professional development schools* (pp. 169-198). Charlotte, NC: Information Age Publishing.
93. **Walker, D. A.**, & Downey, P. M. (2014). A school-university partnership's use of action research as an in-service clinical response initiative to develop the literacy-based instructional practices of teachers. In J. Ferrara, J. L. Nath, & I. N. Guadarrama (Eds.). *Creating visions for university-school partnerships* (pp. 245-258). Charlotte, NC: Information Age Publishing.
94. Acker-Hocevar, M., Cruz-Janzen, M. I., Wilson, C. L., Schoon, P. L., & **Walker, D. A.** (2012). The need to re-establish schools as dynamic positive human energy systems that are non-linear and self-organizing: The learning partnership tree. In N. P. Gallavan (Ed.). *Annual editions: Multicultural education, 16/e* (pp. 65-74). New York: McGraw-Hill.
95. **Walker, D. A.**, & Mohammed, S. F. (2009). Predicting group membership using National Assessment of Educational Progress (NAEP) mathematics data. In M. C. Shelley II, L. D. Yore, & B. Hand (Eds.). *Quality research in literacy and science education: International perspectives and gold standards* (pp. 323-335). Dordrecht, The Netherlands: Springer.

## REFEREED BOOK CONTRIBUTION

96. **Walker, D. A.** (1999). Contribution 34. In F. Pyrczak (Ed.). *Completing your thesis or dissertation: Professors share their techniques and strategies* (p. 45). Los Angeles: Pyrczak.

## REFEREED BOOK REVIEW

97. **Walker, D. A.** (2001). Review of [G. R. Taylor. Integrating quantitative and qualitative methods in research]. *Journal of College Student Development, 42*(3), 286-288.

## REFEREED ABSTRACTS

98. **Walker, D. A.**, & Downey, P. M. (2013). Improving literacy-based instructional practices through action research projects. *National Association for Professional Development Schools, 12*, 134-135.
99. **Walker, D. A.**, & Downey, P. M. (2012). Using action research to enhance instruction. *National Association for Professional Development Schools, 11*, 170.

100. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2009). Professional development for in-service and pre-service teachers using e-learning modules. *Society for Information Technology & Teacher Education*, 33.
101. **Walker, D. A.**, & Sorensen, C. (2007). An Illinois teacher quality partnership: Preliminary results from a professional development school intervention. *Focus on Illinois Education Research Symposium*, 6, 29-30.
102. **Walker, D. A.** (2000). Higher education: In search of access and scholarship. *Resources in Education*, 35(11), 59.
103. **Walker, D. A.** (1999). The leadership conundrum: Leadership development perspectives in higher education. *Resources in Education*, 34(12), 59.

### REFEREED PROCEEDINGS

104. **Walker, D. A.** (2013). 2012 conference program chair's reflections. *Mid-Western Educational Researcher*, 25(4), 62.
105. **Walker, D. A.** (2011). Mid-Western Educational Research Association: 35th annual meeting call for proposals. *Mid-Western Educational Researcher*, 24(4), 22-26.
106. **Walker, D. A.**, & Sorensen, C. (2007). Professional development schools and university-school partnerships in an urban setting. In S. E. Van Kollenburg (Ed.). *Volume 2: Leading for the Common Good: Programs, Strategies, and Structures to Support Student Success* (pp. 99-102). Chicago: The Higher Learning Commission.
107. Lieberman, J. M., & **Walker, D. A.** (2006). Connecting curriculum and instruction to national teaching standards to improve student learning in an urban at-risk school district. In A. Burge (Ed.). *Hawaii International Conference on Education: Conference Proceedings* (pp. 3743-3757). Honolulu: Hawaii International Conference on Education.
108. **Walker, D. A.**, Sorensen, C., Kitterle, F., & Downey, P. (2005). Selecting control schools in a matched pairs design: Project REAL's methodology. In J. H. Kim, C. Vallejo, & J. A. Middleton (Eds.), *Improving Teacher Quality: Proceedings of the 2004 Teacher Quality Enhancement Project Directors' Meeting* (pp. 225-239). Phoenix: Arizona State University.

## EDITOR' S COMMENTARY/INTERVIEW

109. Walker, D. A. (2015). Editor's commentary: Journal title change. *General Linear Model Journal*, 41(1), 1.
110. Newman, I., & Schumacker, R. E. (2014). A retrospective of 40 years of *MLRV* publication (D. A. Walker, Interviewer). *Multiple Linear Regression Viewpoints*, 40(1), 1-4.

## PRESS RELEASES

111. Northern Illinois University College of Education News. (2017, June). Educate Global provides 'world of opportunity' for NIU students flying to teach in China, Taiwan [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/educate-global-provides-world-of-opportunity-for-niu-students-flying-to-teach-in-china-taiwan/](http://news.cedu.niu.edu/coe_news/educate-global-provides-world-of-opportunity-for-niu-students-flying-to-teach-in-china-taiwan/)
112. Northern Illinois University College of Education News. (2017, May). A celebration of excellence [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/a-celebration-of-excellence/](http://news.cedu.niu.edu/coe_news/a-celebration-of-excellence/)
113. Northern Illinois University College of Education News. (2017, April). And the award goes to ... [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/and-the-award-goes-to/](http://news.cedu.niu.edu/coe_news/and-the-award-goes-to/)
114. Northern Illinois University College of Education News. (2017, April). Iowa State honors David Walker [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/iowa-state-honors-david-walker/](http://news.cedu.niu.edu/coe_news/iowa-state-honors-david-walker/)
115. Northern Illinois University College of Education News. (2017, April). Lone Star stars: Educate U.S. 'teas' up for May trip to Texas [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/lone-star-stars-educate-u-s-teas-up-for-may-trip-to-texas/](http://news.cedu.niu.edu/coe_news/lone-star-stars-educate-u-s-teas-up-for-may-trip-to-texas/)
116. Northern Illinois University College of Education News. (2017, April). Taiwan post-doctoral fellows, professors coming April 26 [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/taiwan-post-doctoral-fellows-professors-coming-april-26/](http://news.cedu.niu.edu/coe_news/taiwan-post-doctoral-fellows-professors-coming-april-26/)
117. Miaoli County Government. (2017, March). Culture study highlights international seminar scholars gathered to share innovative teaching [Press Release]. Retrieved from [http://www.miaoli.gov.tw/cht/newsview\\_snyc.php?menuID=4692&forewordID=251841&secureChk=8d34364ad2c5ebaf53604c57e803861a](http://www.miaoli.gov.tw/cht/newsview_snyc.php?menuID=4692&forewordID=251841&secureChk=8d34364ad2c5ebaf53604c57e803861a)
118. Northern Illinois University NIU Today. (2017, February). College of Ed working to offer 'double-degrees' [Press release]. Retrieved from <http://www.niutoday.info/2017/02/08/college-of-ed-working-to-offer-double-degrees/>

119. Miaoli County Government. (2016, November). Creating future: Northern Illinois University delegation comes to visit Miaoli for creative education [Press Release]. Retrieved from <http://www.miaoli.gov.tw/eng/searchcontent.php?forewordID=244052>
120. Northern Illinois University College of Education News. (2016, October). NIU delegation to speak, present at Asian educational research conference [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/niu-delegation-to-speak-present-at-asian-educational-research-conference/](http://news.cedu.niu.edu/coe_news/niu-delegation-to-speak-present-at-asian-educational-research-conference/)
121. Northern Illinois University College of Education News. (2016, August). College of Ed names Walker Associate Dean for Academic Affairs [Press release]. Retrieved from [http://news.cedu.niu.edu/coe\\_news/college-of-ed-names-walker-associate-dean-for-academic-affairs/](http://news.cedu.niu.edu/coe_news/college-of-ed-names-walker-associate-dean-for-academic-affairs/)
122. Northern Illinois University College of Education News. (2015, October). ETRA works to boost Saudi colleges' online teaching skills [Press release]. Retrieved from <http://news.cedu.niu.edu/?p=464>
123. Northern Illinois University NIU Today. (2014, August). NIU faculty deliver "administrator academy" for district 428 [Press release]. Retrieved from <http://www.niutoday.info/2014/08/27/niu-faculty-deliver-administrator-academy-for-district-428>
124. Northern Illinois University NIU Today. (2011, August). College of Education celebrates Peace Corps ties [Press release]. Retrieved from <http://www.niutoday.info/2011/08/30/coe-celebrates-ties-to-peace-corps>
125. Northern Illinois University College of Education. (2011, October). Remembering the Peace Corps: David Walker [Press release]. Retrieved from <http://www.cedu.niu.edu/news/2011/peaceCorps/walker.shtml>
126. Northern Illinois University Northern Today. (2006, August). College of Education hires assessment coordinator [Press release]. Retrieved from <http://www.niu.edu/PubAffairs/RELEASES/2006/aug/walker.shtml>

## TECHNICAL RESEARCH REPORTS

127. **Walker, D. A.** (2016). *Alternative Schools Network News (ASNews) evaluation report, Year 3: McCormick Foundation* (Tech. Rep. No. 2016-09). Chicago, IL: McCormick Foundation.
128. **Walker, D. A.** (2015). *Teaching inquiry-based science in elementary and middle schools* (Tech. Rep. No. 2015-09). DeKalb, IL: Northern Illinois University: Rockford, Illinois Public School District 205.
129. **Walker, D. A.** (Department of Educational Technology, Research & Assessment team member). (2015). *Online teaching and development training program for faculty at Jubail Colleges & Institutes Sector of Kingdom of Saudi Arabia: eLearning professional development report* (Tech. Rep. No. 2015-06). DeKalb, IL: Author.
130. **Walker, D. A.** (2015). *Alternative Schools Network News (ASNews) evaluation report, Year 2: McCormick Foundation* (Tech. Rep. No. 2015-01). Chicago, IL: McCormick Foundation.
131. **Walker, D. A.** (2014). *Diagnosing reading problems and formulating literacy instruction* (Tech. Rep. 2014-10). DeKalb, IL: Northern Illinois University: Rockford, Illinois Public School District 205.
132. **Walker, D. A.** (2014). *Alternative Schools Network News (ASNews) evaluation report, Year 1: McCormick Foundation* (Tech. Rep. No. 2014-01). Chicago, IL: McCormick Foundation.
133. **Walker, D. A.** (2013). *Making text work sessions: Building a bridge to complex text and engaging every student* (Tech. Rep. No. 2013-08). DeKalb, IL: Northern Illinois University: Rockford, Illinois Public School District 205.
134. **Walker, D. A.**, Smith, T. J., & Muehsler, H. E. (2013). *A conceptual framework for assessment and factors related to K-12 student achievement* (Tech. Rep. No. 2013-07). DeKalb, IL: Northern Illinois University: Educational Technology, Research, & Assessment.
135. **Walker D. A.** (2011). *Evaluation report for the College of Education's Office of Assessment* (Tech. Rep. No. 2011-05). DeKalb, IL: Northern Illinois University: College of Education.
136. Campbell, C. Wallace, S. R., & **Walker D. A.** (2010). *RtI resources for educators* (Tech. Rep. No. 2010-09). DeKalb, IL: Northern Illinois University: Educational Technology, Research, & Assessment.

137. **Walker D. A.** (2010). *Evaluation report for the College of Education's Office of Assessment* (Tech. Rep. No. 2010-06). DeKalb, IL: Northern Illinois University: College of Education.
138. **Walker, D. A.** (2009). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Final performance report* (Tech. Rep. No. 2009-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
139. **Walker, D. A.** (2008). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Performance report evaluation, Year 5* (Tech. Rep. No. 2008-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
140. **Walker, D. A.** (2007). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Performance report evaluation, Year 4* (Tech. Rep. No. 2007-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
141. **Walker, D. A.** (2006). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Performance report evaluation, Year 3* (Tech. Rep. No. 2006-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
142. **Walker, D. A.** (2005). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Performance report evaluation, Year 2* (Tech. Rep. No. 2005-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
143. **Walker, D. A.** (2004). *The U.S. Department of Education's Teacher Quality Enhancement grant at Northern Illinois University: Year 1 evaluation* (Tech. Rep. No. 2004-09). DeKalb, IL: Northern Illinois University: Rockford Education Alliance.
144. **Walker, D. A.** (2003). *An evaluation of the New Teacher Academy: Phase II* (Tech. Rep. No. 2003-06). Davie, FL: Broward County Public Schools, Human Resource Development.
145. Wilson, C. L., Acker-Hocevar, M., Cruz-Janzen, M. I., **Walker, D. A.**, Schoon, P. L., Supran, E., & Bingham-Brown, A. (2003). *Florida school report: Best practices project* (Tech. Rep. No. 2003-04). Fort Lauderdale, FL: Council for Educational Change and Florida Atlantic University.
146. **Walker, D. A.** (2002). *An evaluation of the New Teacher Academy: Phase I* (Tech. Rep. No. 2002-06). Davie, FL: Broward County Public Schools, Human Resource Development.

147. **Walker, D. A.**, & Kemis, M. (2000). *Educational leadership and policy studies alumni follow up survey: 1993-1999* (Tech. Rep. No. 2000-05). Ames, IA: Iowa State University: Research Institute for Studies in Education.
148. Kemis, M., Ebbers, L., & **Walker, D. A.** (1999). *Iowa's FSPE project Vision 2020: From experimentation to learning* (Tech. Rep. No. 1999-07). Ames, IA: Iowa State University: Research Institute for Studies in Education.

## PROGRAM REPORTS

149. **Walker, D. A.** (2016). *Program report Northern Illinois University initial and advanced licensure accreditation: Library information specialist* (Std. Rep. No. 2016-09). Springfield, IL: Illinois State Board of Education.
150. **Walker, D. A.** (2016). *Program report Northern Illinois University initial and advanced licensure accreditation: Technology specialist* (Std. Rep. No. 2016-09). Springfield, IL: Illinois State Board of Education.
151. **Walker, D. A.** (2016). *Program report (short version) Northern Illinois University initial and advanced licensure accreditation: Library information specialist* (Std. Rep. No. 2016-02). Springfield, IL: Illinois State Board of Education.
152. **Walker, D. A.** (2015). *Mid-cycle degree program report for the Department of Educational, Technology, Research, and Assessment: Ed.D. instructional technology* (Std. Rep. No. 2015-10). DeKalb, IL: Northern Illinois University.
153. **Walker, D. A.** (2015). *Mid-cycle degree program report for the Department of Educational, Technology, Research, and Assessment: M.S.Ed. instructional technology* (Std. Rep. No. 2015-10). DeKalb, IL: Northern Illinois University.
154. **Walker, D. A.** (2015). *Program report Northern Illinois University initial and advanced licensure accreditation: Technology specialist* (Std. Rep. No. 2015-09). Springfield, IL: Illinois State Board of Education.
155. **Walker, D. A.** (2015). *Program report for the preparation of school librarians American Library Association/American Association of School Librarians* (Std. Rep. No. 2015-09). Washington, D.C.: Council for the Accreditation of Educator Preparation.
156. **Walker, D. A.** (2014). *Program report Northern Illinois University initial and advanced licensure accreditation: Technology specialist* (Std. Rep. No. 2014-09). Springfield, IL: Illinois State Board of Education.



## RESEARCH GRANT FUNDING

1. **Walker, D. A. (Principal Investigator)**, & Reeves, T. D. (Co-PI). (2015-2017). *Online teaching and development training program*. Jubail Colleges & Institutes Sector, Saudi Arabia grant. **Funded for \$60,000.**
2. Northern Illinois University (Principal Investigator), & **Walker, D. A. (External Evaluator and Consultant)**. (2011-2015). *Promoting achievement through literacy skills (PALS)*. State of Illinois grant. **Funded for \$993,500.**
3. **Walker, D. A. (Co-Principal Investigator)**, Smith, T. J. (Co-PI), & Luetkehans, L. M. (Co-PI). (2013). *Conceptual framework of student assessment and other constructs related to student achievement among Illinois K-12 students*. Forecast5 Analytics, Inc. grant. **Funded for \$13,997.**
4. Northern Illinois University (Principal Investigator), & **Walker, D. A. (Grant Evaluator)**. (2003-2009). *Rockford Education Alliance: Project REAL*. U.S. Department of Education grant. **Funded for \$4,890,000.**
5. **Walker, D. A. (Principal Investigator)**. (2008). *The ATR scale revisited*. Northern Illinois University Research and Artistry grant. **Funded for \$4,500.**
6. Northern Illinois University (Principal Investigator), & **Walker, D. A. (Grant Evaluation Team)**. (2003-2007). *Integrating technology, assessment, and action research project (ITAAR)*. U.S. Department of Education grant. **Funded for \$1,500,000.**
7. **Walker, D. A. (Principal Investigator)**. (2007). *Software programs to supplement undergraduate and graduate courses in regression and reliability*. Northern Illinois University Committee for the Improvement of Undergraduate Education Microcomputer Software Acquisition grant. **Funded for \$1,000.**
8. **Walker, D. A. (Principal Investigator)**. (2006). *Internet-based software programs for students studying chi-square and reliability*. Northern Illinois University Committee for the Improvement of Undergraduate Education Microcomputer Software Acquisition grant. **Funded for \$1,000.**
9. Northern Illinois University (Principal Investigator), & **Walker, D. A. (Grant Evaluation Team)**. (2005). *A learning continuum for university and school partnership (CUSP): A P-20 mathematics and science education initiative of Northern Illinois University and East Aurora school district 131*. Northern Illinois University/P-20 grant. **Funded for \$4,500.**

10. **Walker, D. A. (Principal Investigator)**. (2005). *The need to re-establish schools as dynamic positive human energy systems that are non-linear and self-organizing: The learning partnership tree as a systems alignment model for evaluating school practices*. International Conference on Learning, Granada, Spain. Northern Illinois University College of Education Scholarship grant. **Funded for \$1,665.**
11. **Walker, D. A. (Principal Investigator)**. (2005). *Predicting group membership and the ranking of predictor variables using NAEP math data*. Northern Illinois University Research and Artistry grant. **Funded for \$4,000.**
12. **Walker, D. A. (Principal Investigator)**. (2004). *An internet program for determining effect sizes from three categories: r and functions of r, differences between proportions, and standardized differences between means*. Northern Illinois University Research and Artistry grant. **Funded for \$5,100.**
13. Florida Atlantic University (Principal Investigator), & **Walker, D. A. (Grant Evaluator)**. (2002-2003). *Florida school report: Best practices project*. Council for Educational Change grant. **Funded for \$399,300.**
14. Broward County Public Schools (Principal Investigator), & **Walker, D. A. (Grant Evaluator)**. (2001-2003). *The New Teacher Academy*. State of Florida grant. **Funded for \$800,000.**

## **RESEARCH GRANT PROPOSALS UNDER PEER REVIEW**

1. Cleveland State University (PI), & **Walker, D. A. (External Evaluator)**. (2017). *First in the World* grant. U.S. Department of Education, Fund for the Improvement of Postsecondary Education. **Submitted for \$1,000,000.**
2. Ogg, J. (Co-PI), Demaray, M. (Co-PI), Malecki, C. (Co-PI), & **Walker, D. A. (Statistical Consultant)**. (2017). *Training future school psychologists*. U.S. Department of Education, Office of Special Education Programs, Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel. **Submitted for \$500,000.**

## COMPUTER PROGRAMS

1. **Walker, D. A.** (2017). The Aroain version of the Sobel test on a single mediation indirect effect for small samples ( $N < 50$ ) [Computer program].
2. **Walker, D. A.** (2017). Converting from a discrete Y (logit) to an underlying continuous Y (probit) [Computer program].
3. **Walker, D. A.** (2017). F value for the flatness test in profile analysis [Computer program].
4. **Walker, D. A.** (2017). Fahrenheit and celsius conversions [Computer program].
5. **Walker, D. A.** (2017). The Goodman version of the Sobel test on a single mediation indirect effect for very large samples [Computer program].
6. **Walker, D. A.** (2017). Hartley's F test for homogeneity of variance with two groups [Computer program].
7. **Walker, D. A.** (2017). Line graph for eigenvalue extraction methods: Parallel analysis and exploratory factor analysis [Computer program].
8. **Walker, D. A.** (2017). Nantic and nantic root table program [Computer program].
9. **Walker, D. A.** (2017). p values as odds (Bayes factors) and frequentist conditional error probabilities [Computer program].
10. **Walker, D. A.** (2017). The probability of two group separation: Treatment versus non-treatment benefit [Computer program].
11. **Walker, D. A.** (2017). The Sobel test on a single mediation indirect effect for large samples ( $N \geq 50$ ) [Computer program].
12. **Walker, D. A.** (2017). Standard distance measurement units converted to metric measurement units [Computer program].
13. **Walker, D. A.** (2017). Standard liquid and dry measurement units converted to metric liquid and dry units [Computer program].
14. **Walker, D. A.** (2016). The Bonferroni and Sidak correction methods for familywise error rate [Computer program].
15. **Walker, D. A.** (2016). Calculating R and  $R^2$  from  $\chi^2$  [Computer program].

16. **Walker, D. A.** (2016). Cohen's  $h$  effect size for two independent proportions [Computer program].
17. **Walker, D. A.** (2016). Common language effect size program [Computer program].
18. **Walker, D. A.** (2016). Correcting for attenuation in an effect size [Computer program].
19. **Walker, D. A.** (2016).  $d$  and  $f$ : Standardized mean difference and standardized average effect [Computer program].
20. **Walker, D. A.** (2016). Differences between two scores over time [Computer program].
21. **Walker, D. A.** (2016). Estimated  $d$  effect size,  $\phi$  coefficient, and Cohen's  $kappa$  for naturally dichotomous variables in a  $2 \times 2$  table [Computer program].
22. **Walker, D. A.** (2016). Logistic regression derived from a  $2 \times 2$  cross-tabulation table [Computer program].
23. **Walker, D. A.** (2016). Normalized change score for the proportion loss [Computer program].
24. **Walker, D. A.** (2016). Normalized gain score for proportion change [Computer program].
25. **Walker, D. A.** (2016). Octic and octic root table program [Computer program].
26. **Walker, D. A.** (2016). One-facet variance components model [Computer program].
27. **Walker, D. A.** (2016). A program for winsorizing means [Computer program].
28. **Walker, D. A.** (2016). Septic and septic root table program [Computer program].
29. **Walker, D. A.** (2015). The area of a trapezoid [Computer program].
30. **Walker, D. A.** (2015). Binary proximity measures [Computer program].
31. **Walker, D. A.** (2015). Distance, velocity, and time [Computer program].
32. **Walker, D. A.** (2015). Estimating a standardized partial regression coefficient for any number of predictors in a model [Computer program].
33. **Walker, D. A.** (2015). Measures of distances between two points [Computer program].
34. **Walker, D. A.** (2015). Quartic and quartic root table program [Computer program].
35. **Walker, D. A.** (2015). Quintic and quintic root table program [Computer program].

36. **Walker, D. A.** (2015).  $R^2$ ,  $\eta^2$ , and  $r$  derived from sum of squares measures in one-way ANOVA and simple linear regression models [Computer program].
37. **Walker, D. A.** (2015). Sample size needed for two independent binomial groups [Computer program].
38. **Walker, D. A.** (2015). Sextic and sextic root table program [Computer program].
39. **Walker, D. A.** (2015). Studentized range statistic [Computer program].
40. **Walker, D. A.** (2015). The volume, height, and length of a pyramid [Computer program].
41. **Walker, D. A.** (2015). The volume of a cone [Computer program].
42. **Walker, D. A.** (2015). The volume of a cylinder [Computer program].
43. **Walker, D. A.** (2015). Z critical values for one-tailed and two-tailed tests: Alpha = .05, .01, and .001 [Computer program].
44. **Walker, D. A.** (2014). The area, circumference, and radius lengths of a circle [Computer program].
45. **Walker, D. A.** (2014). The area of a parallelogram [Computer program].
46. **Walker, D. A.** (2014). The area, perimeter, and diagonal lengths of an oblong [Computer program].
47. **Walker, D. A.** (2014). The area, perimeter, and diagonal lengths of a square [Computer program].
48. **Walker, D. A.** (2014). The area of a rectangle [Computer program].
49. **Walker, D. A.** (2014). The area of a sphere [Computer program].
50. **Walker, D. A.** (2014). The area of a triangle [Computer program].
51. **Walker, D. A.** (2014). The complementary, supplementary, and sum of the angles of a triangle [Computer program].
52. **Walker, D. A.** (2014). The perimeter of a polygon (n sides) [Computer program].
53. **Walker, D. A.** (2014). The perimeter of a rectangle [Computer program].
54. **Walker, D. A.** (2014). The perimeter of a triangle [Computer program].
55. **Walker, D. A.** (2014). The surface area of a cube [Computer program].

56. **Walker, D. A.** (2014). The volume of a cube [Computer program].
57. **Walker, D. A.** (2014). The volume of a rectangle [Computer program].
58. **Walker, D. A.** (2014). The volume of a sphere [Computer program].
59. **Walker, D. A.** (2013). Adjusted chi-square for a 2 x 2 table when one cell has expected frequencies  $\leq 1$ : An alternative to Fisher's exact test [Computer program].
60. **Walker, D. A.** (2013). Confidence limits for Cohen's d effect size for two groups [Computer program].
61. **Walker, D. A.** (2013). Confidence limits for Kendalls' tau [Computer program].
62. **Walker, D. A.** (2013). Cube and cubic root table program [Computer program].
63. **Walker, D. A.** (2013). Disproportionate stratified random sampling program [Computer program].
64. **Walker, D. A.** (2013). Effect sizes with dichotomous outcomes: Risk difference, relative risk, and odds ratio [Computer program].
65. **Walker, D. A.** (2013). Estimated power for a one sample *t*-test [Computer program].
66. **Walker, D. A.** (2013). McNemar test and Continuity Corrected test for reflecting change in a 2x2 table [Computer program].
67. **Walker, D. A.** (2013). Pearsonian skewness coefficient based on the sample mean, median, and standard deviation [Computer program].
68. **Walker, D. A.** (2013). Proportional improvement in prediction: The degree to which the prediction of Y is improved by X in a regression model [Computer program].
69. **Walker, D. A.** (2013). Random value table generator for uniform, normal, chi-square, *t*, and F distributions [Computer program].
70. **Walker, D. A.** (2013). Rounding p-values program [Computer program].
71. **Walker, D. A.** (2013). Square and square root table program [Computer program].
72. **Walker, D. A.** (2013). Über password program [Computer program].
73. **Walker, D. A.** (2013). Using two orthogonal vectors to create a right triangle via the Pythagorean Theorem [Computer program].
74. **Walker, D. A.** (2012). Approximated Gelfond's constant [Computer program].

75. **Walker, D. A.** (2012). An approximated  $t$  distribution via Spearman's  $r$  [Computer program].
76. **Walker, D. A.** (2012). Approximations for  $e$ : The Eulerian number [Computer program].
77. **Walker, D. A.** (2012). Calculating an estimated  $F$  statistic in regression models [Computer program].
78. **Walker, D. A.** (2012). Chernick's theorem to derive a Carmichael number [Computer program].
79. **Walker, D. A.** (2012). Counting comments program [Computer program].
80. **Walker, D. A.** (2012). Eight measures for estimating the power to detect skewness in a distribution [Computer program].
81. **Walker, D. A.** (2012). Euler's lowest and highest values for  $z$  to the  $z$  infinite power [Computer program].
82. **Walker, D. A.** (2012). Gelfond's constant [Computer program].
83. **Walker, D. A.** (2012). Perfect square numbers program [Computer program].
84. **Walker, D. A.** (2012). Random PIN numbers [Computer program].
85. **Walker, D. A.** (2012). Square root of  $\pi$  [Computer program].
86. **Walker, D. A.** (2012). Triangular numbers program [Computer program].
87. **Walker, D. A.** (2012). Twelve approximations of  $\pi$  [Computer program].
88. **Walker, D. A.** (2012). The variance inflation factor of a predictor variable [Computer program].
89. **Walker, D. A.** (2011). Area of the Mandelbrot set [Computer program].
90. **Walker, D. A.** (2011). Balanced primes [Computer program].
91. **Walker, D. A.** (2011). Cousin primes [Computer program].
92. **Walker, D. A.** (2011). Factorial of  $3/2$  [Computer program].
93. **Walker, D. A.** (2011). Gelfond-Schneider constant/Hilbert number: An irrational to an irrational power that is rational [Computer program].
94. **Walker, D. A.** (2011). Mertens' third theorem [Computer program].

95. **Walker, D. A.** (2011). Prime quadruplets [Computer program].
96. **Walker, D. A.** (2011). Primitive coprime Pythagorean triples [Computer program].
97. **Walker, D. A.** (2011). Pythagoras' constant: The first known irrational number [Computer program].
98. **Walker, D. A.** (2011). Safe primes [Computer program].
99. **Walker, D. A.** (2011). Sexy primes [Computer program].
100. **Walker, D. A.** (2011). Sophie Germain primes [Computer program].
101. **Walker, D. A.** (2011). Star primes [Computer program].
102. **Walker, D. A.** (2011). Twin primes [Computer program].
103. **Walker, D. A.** (2011). Wagstaff prime numbers [Computer program].
104. **Walker, D. A.** (2010).  $e$ : The Eulerian number/Napier's constant to fifteen places [Computer program].
105. **Walker, D. A.** (2010). Fermat numbers program [Computer program].
106. **Walker, D. A.** (2010). Heron's area of a triangle [Computer program].
107. **Walker, D. A.** (2010). Interpolated median [Computer program].
108. **Walker, D. A.** (2010). Keats' estimate for the standard error of measurement [Computer program].
109. **Walker, D. A.** (2010). K-R 20 score reliability for an individual with dichotomous scoring [Computer program].
110. **Walker, D. A.** (2010). Lord's binomial estimate for the standard error of measurement [Computer program].
111. **Walker, D. A.** (2010). Millman's approximation to the standard error [Computer program].
112. **Walker, D. A.** (2010). Perfect numbers program [Computer program].
113. **Walker, D. A.** (2010). Pick's theorem: The area enclosed by a polygonal shape [Computer program].



114. **Walker, D. A.** (2010). A program for counting the frequency of words selected from sentences [Computer program].
115. **Walker, D. A.** (2010). A sample-based variance calculation [Computer program].
116. **Walker, D. A.** (2010). Semipartial correlation [Computer program].
117. **Walker, D. A.** (2010). String concatenation [Computer program].
118. **Walker, D. A.** (2010). Titius-Bode Law: The numerical relationship with Fermat numbers [Computer program].
119. **Walker, D. A.** (2009). The average probability of replication statistic: Determining the chance of a same-sign result [Computer program].
120. **Walker, D. A.** (2009). Commonality analysis for two and three predictor regression models [Computer program].
121. **Walker, D. A.** (2009). Creating structure coefficients in a regression model [Computer program].
122. **Walker, D. A.** (2009). The degree of collinearity based on condition number and condition index measures [Computer program].
123. **Walker, D. A.** (2009). Determining the areas of the unit normal distribution [Computer program].
124. **Walker, D. A.** (2009). An Excel program for determining the probability distributions and critical values for data using *t*-tests, one-way ANOVA, and chi-square [Computer program].
125. **Walker, D. A.** (2009). Fibonacci sequence calculator [Computer program].
126. **Walker, D. A.** (2009). The golden ratio [Computer program].
127. **Walker, D. A.** (2009). Johnson-Neyman confidence intervals for regression models [Computer program].
128. **Walker, D. A.** (2009). Mersenne prime numbers program [Computer program].
129. **Walker, D. A.** (2009). Pi to fifteen places [Computer program].
130. **Walker, D. A.** (2009). A program for finding prime numbers [Computer program].

131. **Walker, D. A.** (2009). A randomization test program for the independent samples *t*-test [Computer program].
132. **Walker, D. A.** (2009). Three corrections for attenuation correlation coefficients [Computer program].
133. **Walker, D. A.** (2009). Unbiased estimations of the standard deviation [Computer program].
134. **Walker, D. A.** (2008). An alphanumeric data generator: Alphabetized and numerically randomized [Computer program].
135. **Walker, D. A.** (2008). Estimating the population standard error of estimation for the probability of success or failure [Computer program].
136. **Walker, D. A.** (2008). The first four moments about the mean: Central moments for a normal distribution based on multiple groups and measures [Computer program].
137. **Walker, D. A.** (2008). Five model fit tests that penalize for a lack of parsimony [Computer program].
138. **Walker, D. A.** (2008). Four model fit measures based on information theory [Computer program].
139. **Walker, D. A.** (2008). Hoelter .05 and .01: A measure for estimating adequate sample size for model fit [Computer program].
140. **Walker, D. A.** (2008). Inter-rater reliability derived from an ANOVA: The average correlation between raters [Computer program].
141. **Walker, D. A.** (2008). Nine goodness-of-fit tests that compare a null model to a proposed model [Computer program].
142. **Walker, D. A.** (2008). Precision estimates for scales with two to six dimensions based on average item correlations and the number of items [Computer program].
143. **Walker, D. A.** (2008). The probability of a statistically significant exact replication (SSER) for chi-square [Computer program].
144. **Walker, D. A.** (2008). A program to calculate the root mean square error of approximation (RMSEA) along with PEXACT and PCLOSE values of model fit [Computer program].
145. **Walker, D. A.** (2008). A program to calculate the standardized root mean square residual (SRMR) [Computer program].

146. **Walker, D. A.** (2008). A program for converting an F value derived from a one-way ANOVA to an  $R^2$  value [Computer program].
147. **Walker, D. A.** (2008). A program for transforming a  $t$  value from an independent samples  $t$ -test to an  $R^2$  value [Computer program].
148. **Walker, D. A.** (2008). The  $r$  equivalent effect size for two-group use in meta-analysis [Computer program].
149. **Walker, D. A.** (2008). The standard error of the Kuder-Richardson 20 reliability coefficient [Computer program].
150. **Walker, D. A.** (2008). Three non-centrality-based fit measures. [Computer program].
151. **Walker, D. A.** (2007). ANCOVA post-test scores: Converting a  $t$ -test of a treatment coefficient to the proportion of unique variation in a criterion variable accounted for by the treatment variable [Computer program].
152. **Walker, D. A.** (2007). Calculating the experiment-wise error rate [Computer program].
153. **Walker, D. A.** (2007). Calculating natural logarithms for any positive value [Computer program].
154. **Walker, D. A.** (2007). Coefficient of unalikeability for categorical variables [Computer program].
155. **Walker, D. A.** (2007). Conditional and estimated standard error of measurements for full-length and mini replications [Computer program].
156. **Walker, D. A.** (2007). Estimated standard errors for omega- and epsilon-square [Computer program].
157. **Walker, D. A.** (2007). Indices for proportion of negative agreement in 2 x 2 tables [Computer program].
158. **Walker, D. A.** (2007). Indices for proportion of positive agreement in 2x2 tables [Computer program].
159. **Walker, D. A.** (2007). K max: Comparing the maximum value of kappa to evaluate the performance of Cohen's  $k$  in a 2x2 table [Computer program].
160. **Walker, D. A.** (2007). Large sample variance for a stepped-up reliability coefficient [Computer program].

161. **Walker, D. A.** (2007). Maxwell's random error index for inter-rater agreement [Computer program].
162. **Walker, D. A.** (2007). Ordinal dominance for two groups: A program to compute a proportion, graphs, a hypothesis test, and confidence intervals [Computer program].
163. **Walker, D. A.** (2007). Point symmetry adjusted phi for a 2x2 matrix: Extensions for a dichotomy [Computer program].
164. **Walker, D. A.** (2007). Point symmetry adjusted phi for a 3x3 matrix: Extensions for a trichotomy [Computer program].
165. **Walker, D. A.** (2007). Variance estimates for Fisher's z transformation based on sample size [Computer program].
166. **Walker, D. A.** (2007). V2: A linear by linear chi-square test [Computer program].
167. **Walker, D. A.** (2006). Alternative computations for estimating reliability via the Spearman-Brown Prophecy Formula [Computer program].
168. **Walker, D. A.** (2006). The Angoff-Feldt estimator for split-half internal consistency [Computer program].
169. **Walker, D. A.** (2006). Confidence intervals for estimated true scores [Computer program].
170. **Walker, D. A.** (2006). Cross-validation measures for estimating prediction error: The MSE<sub>P</sub> (mean squared error of prediction) and the RMSE<sub>P</sub> (root mean squared error of prediction) for a validation sample [Computer program].
171. **Walker, D. A.** (2006). Estimating the standard error of measurement (SEM) based on theoretical values derived from the regression of SEM on the square root of the number of testing items [Computer program].
172. **Walker, D. A.** (2006). Finding the standard error of measurement from four estimation formulas when the reliability coefficient is known [Computer program].
173. **Walker, D. A.** (2006). Fisher, Hotelling, Harley: Three transformations for the correlation coefficient [Computer program].
174. **Walker, D. A.** (2006). Five alternative coefficients for 2x2 tables [Computer program].
175. **Walker, D. A.** (2006). Glass' biserial correlation: A measure between a dichotomous variable of group membership and a single continuous variable ranked across all observations [Computer program].

176. **Walker, D. A.** (2006). The Olkin and Finn methods for estimating confidence bounds for  $R^2$  [Computer program].
177. **Walker, D. A.** (2006). A program for creating any dimension of chi-square table using two columns of raw data [Computer program].
178. **Walker, D. A.** (2006). The proportionality of contiguous standard scores [Computer program].
179. **Walker, D. A.** (2006). The rank biserial correlation as an estimation of rho between the rank of total test score and a ranking variable [Computer program].
180. **Walker, D. A.** (2006). Six formulas for averaging internal consistency [Computer program].
181. **Walker, D. A.** (2006). Standard score grade ranges using Cajori percentages [Computer program].
182. **Walker, D. A.** (2006). Ten non-chance corrected indices for inter-rater agreement with binary data and two raters [Computer program].
183. **Walker, D. A.** (2006). A test to determine if two population values of coefficient alpha are equal [Computer program].
184. **Walker, D. A.** (2005). Centours or centile contour: Locating a point among other points, a one-dimensional space example [Computer program].
185. **Walker, D. A.** (2005). The Chicago game of 26 [Computer program].
186. **Walker, D. A.** (2005). Choosing the appropriate sample size *a priori* with a specified effect size and alpha level: Controlling for type I error when estimating the population mean [Computer program].
187. **Walker, D. A.** (2005). Choosing the appropriate sample size *a priori* with a specified effect size and alpha level: Controlling for type I error when estimating the population proportion [Computer program].
188. **Walker, D. A.** (2005). Choosing the appropriate sample size *a priori* with a specified effect size, alpha level, and power: Controlling for type I and type II errors [Computer program].
189. **Walker, D. A.** (2005). Computing final scores based on aggregating two major grading criteria: The geometric, harmonic, and quadratic means program [Computer program].

190. **Walker, D. A.** (2005). The Delphi Method: Percentage of agreement per member [Computer program].
191. **Walker, D. A.** (2005). Generating lists of pseudo-random and random values from a range of numbers [Computer program].
192. **Walker, D. A.** (2005). Power and effect sizes with independent and dependent sample *t*-tests program [Computer program].
193. **Walker, D. A.** (2005). The probability of a statistically significant exact replication (SSER) for the one-way ANOVA [Computer program].
194. **Walker, D. A.** (2005). The probability of a statistically significant exact replication (SSER) for the *t*-test [Computer program].
195. **Walker, D. A.** (2005). A program to estimate how much a test needs to be increased to predict a given Spearman-Brown reliability coefficient [Computer program].
196. **Walker, D. A.** (2005). A program for selecting a random number from a prescribed range of numbers [Computer program].
197. **Walker, D. A.** (2005). Random data for PIN numbers, surveys, identification, passwords [Computer program].
198. **Walker, D. A.** (2005). Simple random sampling with replacement program [Computer program].
199. **Walker, D. A.** (2005). Simple random sampling without replacement program [Computer program].
200. **Walker, D. A.** (2005). Standard error of a proportion program [Computer program].
201. **Walker, D. A.** (2005). Systematic sampling program [Computer program].
202. **Walker, D. A.** (2005). Type I error simulation programs: The problem with conducting the same test numerous times with examples from three types of *t*-tests and the one-way ANOVA [Computer program].
203. **Walker, D. A.** (2005). Variance estimation and runs test program: Flipping a coin *n*th resamples [Computer program].
204. **Walker, D. A.** (2003). Tau conversion program [Computer program].

## COMPUTER SOFTWARE

1. **Walker, D. A.** (2007). Adjusted  $R^2$  indices for estimating the population multiple correlation coefficient [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
2. **Walker, D. A.** (2007). Chance corrected indices for inter-rater agreement with binary data and two raters [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
3. **Walker, D. A.** (2007). Estimators for sample cross-validation [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
4. **Walker, D. A.** (2007). Measures of association indices for 2 x 2 tables [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
5. **Walker, D. A.** (2007). Specifying predictive variance in a validation sample via the PRESS (Prediction Sum of Squares) method [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
6. **Walker, D. A.** (2006). Calculating a chi-square statistic from two-group data: M, SD, and n [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
7. **Walker, D. A.** (2006). A comparison between the Spearman-Brown and Flanagan-Rulon split half reliability methods [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
8. **Walker, D. A.** (2006). Determining a reliability coefficient from a known SEM and SD [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
9. **Walker, D. A.** (2006). Estimating internal consistency reliability via the Kuder-Richardson 21 formula given M, SD, and k [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
10. **Walker, D. A.** (2006). An estimation of how many pooled judgments are needed to obtain an increased reliability coefficient from a single judgment reliability score [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>
11. **Walker, D. A.** (2004). Effect size calculator (Version 2.0) [Computer software]. Retrieved from <http://www.cedu.niu.edu/~walker/calculators>

## REFEREED RESEARCH PRESENTATIONS

1. Chen, H.-T., Wang, H.-H., Yang, K.-K., Smith, T. J., **Walker, D. A.**, & Smith, M. C. (2017, October). *The predictive relationship between literacy skills and background variables: A PIAAC study of U.S. immigrant participants*. Mid-Western Educational Research Association, Evanston, IL.
2. Chen, H.-T., Wang, H.-H., Yang, K.-K., **Walker, D. A.**, & Smith, T. J. (2017, October). *Student perceptions of school climate and student attitude towards science: A cross-cultural examination*. Mid-Western Educational Research Association, Evanston, IL.
3. Ehrmann, J. N., & **Walker, D. A.** (2017, October). *Predicting instructional alignment from alignment practices*. Mid-Western Educational Research Association, Evanston, IL.
4. Glick, B. M., **Walker, D. A.**, Degges-White, S., & Wesener-Michael, K. (2017, October). *Professional identity of student conduct administrators*. Mid-Western Educational Research Association, Evanston, IL.
5. Murawska, J. M., & **Walker, D. A.** (2017, October). *Visual tools for eliciting connections and cohesiveness in mixed methods research*. Mid-Western Educational Research Association, Evanston, IL.
6. Smith, T. J., **Walker, D. A.**, & McKenna, K. M. (2017, October). *Logistic regression for under sparse data conditions*. Mid-Western Educational Research Association, Evanston, IL.
7. Peed, T., & **Walker, D. A.** (2017, October). *Unruly data: Tips for screening your data prior to analysis*. Association for Counselor Education and Supervision, Chicago, IL.
8. Shokrani, M., Lukaszuk, J., **Walker, D. A.**, McCann, H., McMahan, L., & Kim, E. (2017, August). *Assessment of intake of cinnamon supplements on hemoglobin A1c levels in pre-diabetics*. American Society for Clinical Laboratory Science. San Diego, CA.
9. Smith, T. J., **Walker, D. A.**, & McKenna, C. M. (2017, April). *An examination of link function choice in ordinal regression models*. American Educational Research Association, San Antonio, TX.
10. **Walker, D. A.**, Reeves, T. D., & Smith, T. J. (2017, April). *Confirmation of the factor structure of the Data Driven Decision-Making Efficacy and Anxiety Inventory (3D-MEA) among teachers in the Midwest*. American Educational Research Association, San Antonio, TX.



11. Alkarzon, M., Mayall, H., & **Walker, D. A.** (2016, November). *Digital divide in online learning*. Association for the Advancement of Computing in Education World Conference on E-Learning, Washington, D.C.
12. Alkarzon, M., **Walker, D. A.**, & Mayall, H. (2016, October). *Diffusion of innovation and online training adoption*. Mid-Western Educational Research Association, Evanston, IL.
13. Al-Shahrani, H. A., & **Walker, D. A.** (2016, October). *Behavioral intention to adopt mobile learning among university students in Saudi Arabia*. Mid-Western Educational Research Association, Evanston, IL.
14. Martin, A. L., Reeves, T. D., Smith, T. J., & **Walker, D. A.** (2016, October). *Computer proficiency for online learning: Factorial invariance of scores among teachers*. Mid-Western Educational Research Association, Evanston, IL.
15. Smith, T. J., **Walker, D. A.**, & McKenna, C. M. (2016, October). *An exploration of link functions used in ordinal regression*. Mid-Western Educational Research Association, Evanston, IL.
16. **Walker, D. A.** (2016, October). *r and r biased adjustment indices with confidence intervals*. Mid-Western Educational Research Association, Evanston, IL.
17. **Walker, D. A.**, Reeves, T. D., Smith, T. J., Sanga, I., Al-Shahrani, F., & Hung, W. C. (2016, October). *An evaluation of an online teaching and course development training program in Saudi Arabia*. Mid-Western Educational Research Association, Evanston, IL.
18. **Walker, D. A.**, Reeves, T. D., Smith, T. J., Comber, E. M., Martin, A. L., & Summers, K. H. (2016, September). *Confirmation of the factor structure of the Data Driven Decision-Making Efficacy and Anxiety inventory (3D-MEA) among teachers in the Midwest*. Illinois Education Research Council, Bloomington, IL.
19. Tonks, S. M., Summers, K. H., & **Walker, D. A.** (2016, August). *Development of reading autonomy measures for U.S. middle school students*. American Psychological Association, Denver, CO.
20. Alis, J. P., Salacinski, A. J., Nguyen, R. K., Chomentowski, P. J., Lukaszuk, J. M., & **Walker, D. A.** (2016, June). *Determining the effect of a coconut beverage on blood glucose and blood lactate concentrations*. American College of Sports Medicine, Boston, MA.
21. Nguyen R. K., Lukaszuk, J. M., Alis, J. P., Salacinski, A. J., **Walker, D. A.**, & Umoren, J. (2016, June). *Effectiveness of coconut water on treadmill anaerobic test performance*. American College of Sports Medicine, Boston, MA.
22. Martin, A., & **Walker, D. A.** (2016, April). *Factor exploration of a Christian identity scale*. American Educational Research Association, Washington, D.C.

23. Newman, I., Hitchcock, J. H., Newman, D. O., **Walker, D. A.**, Smith, T. J., Finch, W. H., & Brooks, G. P. (2016, April). *What if null hypothesis significance tests were banned? An interactive discussion of implications for general linear modeling*. American Educational Research Association, Washington, D.C.
24. Smith, T. J., **Walker, D. A.**, & McKenna, C. M. (2016, April). *A coefficient of discrimination for use with multinomial and ordinal regression models*. American Educational Research Association, Washington, D.C.
25. Hong, C., & **Walker, D. A.** (2015, October). *A confirmatory factor analysis of the Technology Acceptance Model concerning factors related to attitudes toward using Moodle in Cambodia*. Mid-Western Educational Research Association, Evanston, IL.
26. Martin, A., & **Walker, D. A.** (2015, October). *Factor exploration of a Christian identity scale*. Mid-Western Educational Research Association, Evanston, IL.
27. Reeves, T. D., **Walker, D. A.**, Smith, T. J., Sanga, I., & Al-Shahrani, F. (2015, October). *Tracking the growth of higher educators during an online teaching and course development training program*. Illinois Education Research Council, Lisle, IL.
28. Smith, T. J., **Walker, D. A.**, & McKenna, C. M. (2015, October). *A coefficient of discrimination for use with multinomial and ordinal regression models*. Mid-Western Educational Research Association, Evanston, IL.
29. **Walker, D. A.** (2015, October). *Two group program for Cohen's  $d$ , Hedges'  $g$ ,  $\eta^2$ ,  $Radj^2$ ,  $\omega^2$ ,  $\varepsilon^2$ , confidence intervals, and power*. Mid-Western Educational Research Association, Evanston, IL.
30. **Walker, D. A.**, & Downey, P. M. (2015, October). *Professional development schools enhancing literacy part II: Diagnosing reading problems and formulating literacy instruction*. Mid-Western Educational Research Association, Evanston, IL.
31. **Walker, D. A.**, & Smith, T. J. (2015, October). *Computing robust, bootstrap-adjusted fit indices for use with non-normal data*. Mid-Western Educational Research Association, Evanston, IL.
32. **Walker, D. A.**, & Downey, P. M. (2015, April). *Professional development schools enhancing literacy: Building a bridge to complex text and engaging every student*. American Educational Research Association, Chicago, IL.
33. Muehsler, H. E., Smith, T. J., & **Walker, D. A.** (2014, November). *A note on the use of Cohen's  $d$  and Common Language Effect*. Mid-Western Educational Research Association, Evanston, IL.
34. **Walker, D. A.** (2014, November). *A gender invariance study of the Attitudes Toward Science scale*. Mid-Western Educational Research Association, Evanston, IL.

35. **Walker, D. A.**, & Downey, P. M. (2014, April). *A school-university partnership's use of action research as an in-service clinical response initiative to develop the literacy-based instructional practices of teachers*. American Educational Research Association, Philadelphia, PA.
36. **Walker, D. A.**, & Paver, J. (2014, April). *Factors that predict the integration of technology for instruction by community college adjunct faculty*. American Educational Research Association, Philadelphia, PA.
37. Downey, P. M., & **Walker, D. A.** (2013, November). *A school-university partnership's use of action research as an in-service clinical response initiative to develop the literacy-based instructional practices of teachers*. Mid-Western Educational Research Association, Evanston, IL.
38. Muehsler, H. E., Smith, T. J., & **Walker, D. A.** (2013, November). *A conceptual framework for assessment and factors related to K-12 student achievement*. Mid-Western Educational Research Association, Evanston, IL.
39. Paver, J., & **Walker, D. A.** (2013, November). *Community college adjunct faculty demographic characteristics that may predict intention to integrate technology into instruction: A literature-based model*. Mid-Western Educational Research Association, Evanston, IL.
40. Paver, J., & **Walker, D. A.** (2013, November). *Factors that predict the integration of technology for instruction by community college adjunct faculty*. Mid-Western Educational Research Association, Evanston, IL.
41. **Walker, D. A.** (2013, November). *A structural analysis of the Attitudes Toward Science scale: Attitudes and beliefs about science as a multi-dimensional composition*. Mid-Western Educational Research Association, Evanston, IL.
42. Nathans, L. L., Nimon, K., & **Walker, D. A.** (2013, April). *Use of the multiple lens approach to multiple regression findings with a national dataset*. American Educational Research Association, San Francisco, CA.
43. **Walker, D. A.**, & Downey, P. M. (2013, February). *Improving literacy-based instructional practices through action research projects*. National Association for Professional Development Schools, New Orleans, LA.
44. Newell, P., Elmore, P. B., & **Walker, D. A.** (2012, April). *Multiple linear regression articles and the article publication process*. American Educational Research Association, Vancouver, British Columbia, Canada.
45. Smith, M. C., **Walker, D. A.**, & Hamidova, N. I. (2012, April). *The Attitudes Toward Science scale revisited: Attitudes and beliefs about science as a multidimensional composition*. American Educational Research Association, Vancouver, British Columbia, Canada.

46. **Walker, D. A.** (2012, April). *Using student and institutional characteristics to predict graduation rates at community colleges: New developments in performance measures and institutional effectiveness*. American Educational Research Association, Vancouver, British Columbia, Canada.
47. **Walker, D. A.** (2012, April). *The varying composition of teacher and student perceptions of school climate: The importance of contextual factors in the middle school experience*. American Educational Research Association, Vancouver, British Columbia, Canada.
48. **Walker, D. A.,** & Downey, P. M. (2012, March). *Using action research to enhance instruction*. National Association for Professional Development Schools, Las Vegas, NV.
49. **Walker, D. A.,** Downey, P. M., & Smaldino, S. (2012, January). *Promoting achievement through literacy skills*. Hawaii International Conference on Education, Honolulu, HI.
50. Smith, M. C., **Walker, D. A.,** & Hamidova, N. (2011, November). *Distinguishing students' attitudes toward science from their beliefs about science: Does it matter?* Southwest Consortium for Innovative Psychology in Education, Norman, OK.
51. **Walker, D. A.** (2011, October). *Promoting student achievement through integrated literacy instruction*. Mid-Western Educational Research Association, St. Louis, MO.
52. **Walker, D. A.** (2011, October). *Using student and institutional characteristics to predict graduation rates at community colleges: New developments in performance measures and institutional effectiveness*. Mid-Western Educational Research Association, St. Louis, MO.
53. **Walker, D. A.** (2010, October). *Applying a cost-benefit template to program evaluation: The beginning of a long conversation*. Mid-Western Educational Research Association, Columbus, OH.
54. **Walker, D. A.** (2010, October). *A climate analysis from a large, urban middle school: Contextual factors matter*. Mid-Western Educational Research Association, Columbus, OH.
55. **Walker, D. A.** (2010, October). *Dispositions ambassadors: Supporting initial certification candidates' development of dispositions for teaching*. Mid-Western Educational Research Association, Columbus, OH.
56. **Walker, D. A.,** & Borg, T. (2010, May). *A dispositions model for a bilingual transition to teaching program*. American Educational Research Association, Denver, CO.
57. **Walker, D. A.,** Downey, P., & Smaldino, S. E. (2010, May). *A cost-benefit analysis from a professional development school partnership*. American Educational Research Association, Denver, CO.

58. Downey, P., **Walker, D. A.**, & Smaldino, S. E. (2010, April). *A leadership for learning school district-university partnership model for school improvement*. American Educational Research Association, Denver, CO.
59. **Walker, D. A.**, Smaldino, S., & Downey, P. M. (2010, March). *Enhancing leadership in a school-university partnership*. Professional Development Schools National Conference, Orlando, FL.
60. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2010, January). *A summer college camp experience used to recruit and motive high school students*. Hawaii International Conference on Education, Honolulu, HI.
61. **Walker, D. A.**, & Downey, P. M. (2010, January). *A summative evaluation of a professional development school partnership*. Hawaii International Conference on Education, Honolulu, HI.
62. **Walker, D. A.** (2009, October). *Dispositions development: A data-driven model in a bilingual transition to teaching external partnership program*. Mid-Western Educational Research Association, St. Louis, MO.
63. **Walker, D. A.** (2009, October). *Leadership transformation: A school district-university partnership*. Mid-Western Educational Research Association, St. Louis, MO.
64. **Walker, D. A.** (2009, October). *A Model for a cost-benefit analysis from a professional development school evaluation*. Mid-Western Educational Research Association, St. Louis, MO.
65. **Walker, D. A.** (2009, October). *Out-of-class educational experiences for at-risk high school students and pre-service teachers*. Mid-Western Educational Research Association, St. Louis, MO.
66. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2009, July). *Results, best practices, and next steps in a school-university partnership*. Conference for Partnerships and Professional Development Schools, State College, PA.
67. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2009, April). *A long-term professional development school collaboration: Results, best practices, and lessons learned by the partnership*. American Educational Research Association, San Diego, CA.
68. **Walker, D. A.** (2009, April). *A confirmatory factor analysis of the Attitudes Toward Research scale*. American Educational Research Association, San Diego, CA.
69. **Walker, D. A.** (2009, April). *The SSER method: Extensions within the General Linear Model*. American Educational Research Association, San Diego, CA.

70. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2009, March). *Professional development for in-service and pre-service teachers using e-learning modules*. Society for Information Technology and Teacher Education, Charleston, SC.
71. Downey, P. M., & **Walker, D. A.** (2009, February). *District-wide leadership transformation through a school-university collaboration*. American Association of Colleges for Teacher Education, Chicago, IL.
72. **Walker, D. A.**, Downey, P. M., & Smaldino, S. (2009, February). *Sustainable partnerships: Results, best practices, and SCDE perspectives from a five-year professional development school*. American Association of Colleges for Teacher Education, Chicago, IL.
73. **Walker, D. A.**, Melin, L. S., & Borg, T. (2009, February). *Dispositions development: A data-driven model in a bilingual transition-to-teaching external partnership program*. American Association of Colleges for Teacher Education, Chicago, IL.
74. Downey, P. M., & **Walker, D. A.** (2009, January). *District-wide leadership reform through a school-university partnership*. Hawaii International Conference on Education, Honolulu, HI.
75. **Walker, D. A.**, & Downey, P. M. (2009, January). *A five-year school-university partnership: Results, best practices, and lessons learned*. Hawaii International Conference on Education, Honolulu, HI.
76. Downey, P. M., Smaldino, S., & **Walker, D. A.** (2008, October). *The use of e-learning modules for pre-service and in-service teacher professional development*. International Visual Literacy Association, Blacksburg, VA.
77. **Walker, D. A.** (2008, October). *A confirmatory factor analysis of the Attitudes Toward Research scale*. Mid-Western Educational Research Association, Columbus, OH.
78. **Walker, D. A.** (2008, October). *The Statistically Significant Exact Replication method: Extensions within the general linear model*. Mid-Western Educational Research Association, Columbus, OH.
79. **Walker, D. A.** (2008, October). *What have we learned?: Results from a five-year evaluation of a professional development school model*. Mid-Western Educational Research Association, Columbus, OH.
80. **Walker, D. A.**, & Melin, L. S. (2008, October). *How to create a dispositions model for program improvement and external accreditation: Results and lessons learned*. Mid-Western Educational Research Association, Columbus, OH.
81. **Walker, D. A.**, & Melin, L. (2008, April). *A data-driven dispositions model for teacher candidates and program review*. Higher Learning Commission, Chicago, IL.

82. Downey, P. M., **Walker, D. A.**, & Smaldino, S. (2008, March). *24/7 professional development for in-service and pre-service teachers: E-learning modules*. American Educational Research Association, New York, NY.
83. **Walker, D. A.** (2008, March). *All possible kappa coefficient values and cell distributions in a 2 x 2 matrix for small samples*. American Educational Research Association, New York, NY.
84. **Walker, D. A.** (2008, March). *The impact of rater disagreement on chance-corrected inter-rater agreement indices with equal and unequal marginal proportions*. American Educational Research Association, New York, NY.
85. **Walker, D. A.**, Sorensen, C., Downey, P. M., & Smaldino, S. (2008, March). *Inclusive school reform via PDS: An analysis of data from a three-tiered partnership model*. American Educational Research Association, New York, NY.
86. **Walker, D. A.**, Downey, P. M., & Kuehl, D. (2008, February). *Recruiting students from diverse populations into the teaching profession: A school-community college-university preparation model*. American Association of Colleges for Teacher Education, New Orleans, LA.
87. **Walker, D. A.**, Sorensen, C., & Downey, P. M. (2008, February). *What does quality, sustainability, and fidelity look like in a three-tiered partnership: REAL results*. American Association of Colleges for Teacher Education, New Orleans, LA.
88. Downey, P. M., **Walker, D. A.**, Smaldino, J., & Smaldino, S. (2008, January). *The use of e-learning modules for pre-service and in-service teacher professional development*. Hawaii International Conference on Education, Honolulu, HI.
89. **Walker, D. A.**, Sorensen, C., Downey, P. M., & Smaldino, S. (2008, January). *Constructing quality, sustainability, and fidelity: Research findings from an urban school-university partnership*. Hawaii International Conference on Education, Honolulu, HI.
90. **Walker, D. A.** (2007, October). *All possible kappa coefficient values and cell distributions in a 2 x 2 matrix for small samples*. Mid-Western Educational Research Association, St. Louis, MO.
91. **Walker, D. A.** (2007, October). *The impact of rater disagreement on chance-corrected inter-rater agreement indices with equal and unequal marginal proportions*. Mid-Western Educational Research Association, St. Louis, MO.
92. **Walker, D. A.** (2007, October). *A three-year evaluation of a professional development school intervention*. Mid-Western Educational Research Association, St. Louis, MO.

93. **Walker, D. A.** (2007, July). *Addressing teacher shortages through a community college-university partnership: Recruiting students from under-represented backgrounds into the teaching profession*. Association of Teacher Educators, Milwaukee, WI.
94. **Walker, D. A.,** & Melin, L. (2007, July). *Use of LiveText for collaborative assessment, remediation, and documentation of teacher candidates' dispositions at Northern Illinois University*. LiveText Conference, Chicago, IL.
95. **Walker, D. A.,** & Sorensen, C. (2007, July). *A school-community college-university professional development model: REAL results*. Association of Teacher Educators, Milwaukee, WI.
96. **Walker, D. A.,** & Sorensen, C. (2007, June). *An Illinois teacher quality partnership: Preliminary results from a professional development school intervention*. Illinois Education Research Symposium, Orland Park, IL.
97. **Walker, D. A.** (2007, April). *Estimating how many observations are needed to obtain a required level of reliability: A method for classroom-based research*. American Educational Research Association, Chicago, IL.
98. **Walker, D. A.** (2007, April). *Estimation methods for cross-validation prediction accuracy*. American Educational Research Association, Chicago, IL.
99. **Walker, D. A.,** & Hecht, J. B. (2007, April). *SHARK: A data-driven tool for improving department information management and program assessment*. Higher Learning Commission, Chicago, IL.
100. **Walker, D. A.,** & Sorensen, C. (2007, April). *Professional development schools and university-school partnerships in an urban setting*. Higher Learning Commission, Chicago, IL.
101. **Walker, D. A.,** Sorensen, C., Smaldino, S., & Downey, P. M. (2007, April). *A professional development school intervention: Experiment, estimate, evaluate, and replicate*. American Educational Research Association, Chicago, IL.
102. Downey, P. M., Mehlig, L., & **Walker, D. A.** (2007, February). *E-learning modules developed for improvement of instruction with in-service and pre-service teachers*. American Association of Colleges for Teacher Education, New York, NY.
103. Downey, P. M., **Walker, D. A.,** & Kuehl, D. (2007, February). *Community college offers valuable resources to school/university partnership*. American Association of Colleges for Teacher Education, New York, NY.
104. Downey, P. M., **Walker, D. A.,** Smaldino, J., & Smaldino, S. (2007, January). *E-learning modules developed for improvement of instruction with in-service and pre-service teachers*. Hawaii International Conference on Education, Honolulu, HI.



105. **Walker, D. A.,** & Downey, P. M. (2007, January). *Preparing master teachers in an urban at-risk school district via the national board certification process.* Hawaii International Conference on Education, Honolulu, HI.
106. **Walker, D. A.,** & Downey, P. M. (2007, January). *A professional development school intervention at a multi-site urban school district.* Hawaii International Conference on Education, Honolulu, HI.
107. **Walker, D. A.,** Sorensen, C., & Downey, P. M. (2006, December). *REAL findings: Data and lessons learned from an urban school district-university partnership.* Teacher Quality Enhancement, Albuquerque, NM.
108. **Walker, D. A.** (2006, October). *Estimating how many observations or judgments are needed to obtain a required level of reliability.* Mid-Western Educational Research Association, Columbus, OH.
109. **Walker, D. A.** (2006, October). *Estimation methods for cross-validation prediction accuracy.* Mid-Western Educational Research Association, Columbus, OH.
110. **Walker, D. A.** (2006, October). *A professional development school intervention: Two years of data from Project REAL's quasi-experimental design.* Mid-Western Educational Research Association, Columbus, OH.
111. Wilson, C. L., Acker-Hocevar, M., Cruz-Janzen, M. I., Schoon, P. L., **Walker, D. A.,** & Bingham-Brown, A. (2006, June). *The proliferation of marginal research for dollars.* International Conference on Learning, Montego Bay, Jamaica.
112. **Walker, D. A.** (2006, April). *A comparison of eight shrinkage formulas under extreme conditions.* American Educational Research Association, San Francisco, CA.
113. **Walker, D. A.,** Sorensen, C., Downey, P., Smaldino, S., & Lieberman, J. M. (2006, April). *A design for selecting control schools for professional development school research.* American Educational Research Association, San Francisco, CA.
114. Lieberman, J. M., & **Walker, D. A.** (2006, January). *Connecting curriculum and instruction to national teaching standards to improve student learning in an urban at-risk school district.* Hawaii International Conference on Education, Honolulu, HI.
115. Lieberman, J. M., **Walker, D. A.,** Sorensen, C., & Downey, P. (2006, January). *Comprehensive school reform and Project REAL: An analysis of an urban at-risk partnership model.* Hawaii International Conference on Education, Honolulu, HI.
116. **Walker, D. A.,** Sorensen, C., Downey, P., Smaldino, S., & Lieberman, J. M. (2006, January). *A research design for selecting control schools for a school-university partnership in a high-need urban district.* Hawaii International Conference on Education, Honolulu, HI.

117. Downey, P., Sorensen, C., Courtney, K., Perkins, P., & **Walker, D. A.** (2005, November). *Dealing with change, creating a true partnership: Strategies for maintaining the project when key personnel change*. Teacher Quality Enhancement, Washington, D.C.
118. **Walker, D. A.** (2005, October). *A comparison of the Spearman-Brown and Flanagan-Rulon formulas for split-half reliability under various variance parameter conditions*. Mid-Western Educational Research Association, Columbus, OH.
119. **Walker, D. A.** (2005, October). *A modified shrinkage formula for extreme conditions*. Mid-Western Educational Research Association, Columbus, OH.
120. **Walker, D. A.** (2005, October). *Using the Interactive Illinois Report Card to select control schools for a teacher quality enhancement grant*. Mid-Western Educational Research Association, Columbus, OH.
121. **Walker, D. A.** (2005, October). Using simulations to teach statistical concepts. In R. Barcikowski (Chair), *Simulations and online technology as learning tools in statistics courses*. Mid-Western Educational Research Association, Columbus, OH.
122. Acker-Hocevar, M., Cruz-Janzen, M. I., Wilson, C. L., Schoon, P. L., & **Walker, D. A.** (2005, July). *The need to re-establish schools as dynamic positive human energy systems that are non-linear and self-organizing: The learning partnership tree*. International Conference on Learning, Granada, Spain.
123. Schoon, P. L., Wilson, C. L., **Walker, D. A.**, Cruz-Janzen, M. I., Acker-Hocevar, M., & Bingham-Brown, A. (2005, July). *A systems alignment model for evaluating school practices*. International Conference on Learning, Granada, Spain.
124. **Walker, D. A.** (2005, April). *Bias affiliated with two variants of Cohen's d when determining U or the percentage of non-overlap*. American Educational Research Association, Montréal, Québec, Canada.
125. **Walker, D. A.** (2005, April). *An SPSS matrix for determining effect sizes: r related, differences between proportions, and differences between means*. American Educational Research Association, Montréal, Québec, Canada.
126. **Walker, D. A.**, & Mohammed, S. F. (2005, April). *Predicting group membership and the ranking of predictor variables using NAEP math data*. American Educational Research Association, Montréal, Québec, Canada.
127. Clyde, C., Floyd, D. L., & **Walker, D. A.** (2004, November). *Influences of an experiential learning program for holocaust education*. Association for the Study of Higher Education, Kansas City, MO.

128. Mohammed, S. F., & **Walker, D. A.** (2004, November). *Predicting group membership and the ranking of predictor variables using NAEP math data*. Florida Educational Research Association, Tampa, FL.
129. **Walker, D. A.**, Sorensen, C., Kitterle, F., & Downey, P. (2004, November). *Selecting control schools in a matched pairs design: Project REAL's methodology*. Teacher Quality Enhancement, Phoenix, AZ.
130. **Walker, D. A.** (2004, October). *Cohen's  $U_1$  as a measure of the percentage of non-overlap: Two SPSS simulation programs to evaluate its central tendency and variability properties*. Mid-Western Educational Research Association, Columbus, OH.
131. **Walker, D. A.** (2004, October). *Indexing Smith's standard error of measurement for different scores and test lengths*. Mid-Western Educational Research Association, Columbus, OH.
132. **Walker, D. A.** (2004, October). *Predicting group membership and the ranking of predictor variables using NAEP math data*. Mid-Western Educational Research Association, Columbus, OH.
133. **Walker, D. A.** (2004, April). *Assessing Florida's CLAST for predicting undergraduate GPA: A predictive discriminate analysis model*. American Educational Research Association, San Diego, CA.
134. **Walker, D. A.**, & Mohammed, S. F. (2004, April). *A resource inputs model examining NAEP reading score change from 1994-1998: State median household income and free and reduced-price lunch percentages matter*. American Educational Research Association, San Diego, CA.
135. Wilson, C. L., Schoon, P. L., **Walker, D. A.**, Bingham-Brown, A., Cruz-Janzen, M.I., & Acker-Hocevar, M. (2004, April). *Methodological issues related to evidence-based research and claims: A critical essay*. American Educational Research Association, San Diego, CA.
136. Mohammed, S. F., & Walker D. A. (2003, November). *NAEP reading score change from 1994-1998: A latent growth curve analysis of variables from a path model*. Florida Educational Research Association, Orlando, FL.
137. Schoon, P. L., Acker-Hocevar, M., Cruz-Janzen, M. I., Wilson, C. L., **Walker, D. A.**, Supran, E., & Bingham-Brown, A. (2003, November). *Transforming a systems alignment model to a learning partnership with roots of sustainable reform*. Florida Educational Research Association, Orlando, FL.
138. **Walker, D. A.** (2003, October). *Calculating effect sizes from reported  $n$ ,  $M$ , and  $SD$  for 2 group designs*. Mid-Western Educational Research Association, Columbus, OH.

139. **Walker, D. A.** (2003, October). *An exploratory factor analysis of a preparedness scale for K-12 teachers in South Florida*. Mid-Western Educational Research Association, Columbus, OH.
140. **Walker, D. A.** (2003, October). *The predictive validity of Florida's CLAST for predicting GPA: A revisal*. Mid-Western Educational Research Association, Columbus, OH.
141. Young, D., & **Walker, D. A.** (2003, May). *Impact of weights and design effects on contingency tables and chi square analysis: An example using a data set from the National Center for Education Statistics*. Association for Institutional Research, Tampa, FL.
142. Acker-Hocevar, M., Cruz-Janzen, M. I., Schoon, P. L., **Walker, D. A.**, Wilson, C. L., & Supran, E. (2003, April). *Questions or sustainable school improvement and the policies surrounding poverty and limited English proficiency*. American Educational Research Association, Chicago, IL.
143. Floyd, D. L., & **Walker, D. A.** (2003, April). *Community college teacher education: A typology, challenging issues, and state views*. Council for the Study of Community Colleges, Dallas, TX.
144. **Walker, D. A.**, & Young, D. (2003, April). *Example of the impact of weights and design effects on contingency tables and chi square analysis*. American Educational Research Association, Chicago, IL.
145. **Walker, D. A.**, & Mohammed, S. F. (2003, March). *Score changes and effect sizes from 4th to 8th grade by state: NAEP mathematics (1992-96) and reading (1994-1998) scores compared to state median household income*. Florida Atlantic University Student Advisory Council Research Symposium, Boca Raton, FL.
146. **Walker, D. A.** (2002, November). Grappling with methodological issues. In M. Acker-Hocevar (Chair), *Making the sun shine on disadvantaged students in Florida*. Florida Educational Research Association, Gainesville, FL.
147. **Walker, D. A.** (2002, November). *A table for converting Kendall's tau to other r-related statistics: A replication analysis*. Florida Educational Research Association, Gainesville, FL.
148. **Walker, D. A.**, & Young, D. (2002, November). *Example of the impact of weights and design effects on contingency tables and chi square analysis*. Florida Educational Research Association, Gainesville, FL.
149. **Walker, D. A.** (2002, April). *What factors influence admissions directors' salaries?* Southern Association for College Admission Counseling, Fort Lauderdale, FL.

150. **Walker, D. A.** (2001, April). *Student affairs professionals' perceptions of international students at small colleges*. American Educational Research Association, Seattle, WA.
151. **Walker, D. A.** (1998, October). *Student affairs professionals' perceptions of the concerns and feelings of international students at private, four-year liberal arts institutions*. Midwest Meeting of Graduate Students in Student Personnel, Ames, IA.
152. **Walker, D. A.** (1997, November). *Cultivating diversity: The use of international experiences as teaching tools*. Iowa Student Personnel Association, Cedar Rapids, IA.
153. **Walker, D. A.** (1997, October). *Diversity issues: My five years in the Democratic Republic of Congo and Mauritania*. Association of International Educators, Minneapolis, MN.
154. **Walker, D. A.** (1997, October). *An evaluation plan for campus programs*. Association for Institutional Research in the Upper Midwest, St. Paul, MN.

## RESEARCH PRESENTATIONS

### INVITED

155. **Walker, D. A.** (2017, April). *Learning outcomes: Classroom and beyond*. Assessment Expo: Showcasing Best Practices in Assessing Learning Outcomes, Northern Illinois University, DeKalb, IL.
156. **Walker, D. A.** (2017, March). *Trends in international education*. International Education Forum, Miaoli, Taiwan.
157. **Walker, D. A., & Hung, W.-C.** (2017, March). *The NIU experience of promoting an international dimension in education*. International Education Forum, Miaoli, Taiwan.
158. Borg, T., Elish-Piper, L., Hadi-Tabassum, S., Hung, W.-C., Johnson, L. R., Sanga, I. Smith, T. J., & **Walker, D. A.** (2016, November). *Teacher preparation and professional development*. Global Open Imagination Project on Teaching Innovation and Education Excellence, Miaoli, Taiwan.
159. **Walker, D. A.** (2016, November). *Action research: Teacher inquiry for K-12 in-class questions*. Global Open Imagination Project on Teaching Innovation and Education Excellence, Miaoli, Taiwan.
160. **Walker, D. A.** (2016, November). *Opportunities for international education advancement: Developments from the United States, Asia, and Oceania*. Keynote Address at the Asia-Pacific Educational Research Association/Taiwan Education Research Association, Kaohsiung, Taiwan.
161. **Walker, D. A.** (2016, August). *Assessment, accreditation, data, and curricular innovation: Opportunities in the College of Education*. Northern Illinois University, College of Education, DeKalb, IL.
162. **Walker, D. A.** (2014, November). *International engagement: Trends and possibilities*. Keynote Presidential Address at the Mid-Western Educational Research Association, Evanston, IL.
163. Smith, T. J., & **Walker, D. A.** (2014, October). *Survey research with Qualtrics*. Northern Illinois University, Educational, Technology, Research, and Assessment, DeKalb, IL.
164. **Walker, D. A., Summers, K. H., & Santuzzi, A.** (2014, August). *Effective and ethical evaluation within a balanced assessment framework*. Northern Illinois University's Center for the Interdisciplinary Study of Language and Literacy and DeKalb C.U.S.D. #428, DeKalb, IL.

165. **Walker, D. A.**, Smith, T. J., & Muehlsler, H. E. (2013, October). *A conceptual framework for assessment and factors related to K-12 student achievement*. Forecast5 Analytics Conference, Naperville, IL.
166. **Walker, D. A.** (2012, October). *Engaging students in the research process*. Wadsworth Publishing/Cengage Learning Research Forum, Belmont, CA.
167. **Walker, D. A.** (2012, July). *Using action research for in-class and out-of-class questions*. Northern Illinois University's Promoting Achievement through Literacy Skills (PALS) Grant Series, Eisenhower Middle School: Rockford, IL.
168. **Walker, D. A.** (2012, June). *Action research in your school*. Northern Illinois University's Promoting Achievement through Literacy Skills (PALS) Grant Series, Eisenhower Middle School: Rockford, IL.
169. **Walker, D. A.** (2011, November). *Action research: An overview for classroom use*. Northern Illinois University's Promoting Achievement through Literacy Skills (PALS) Grant Series, Auburn High School: Rockford, IL.
170. **Walker, D. A.** (2011, April). *Technology proficiencies*. Northern Illinois University, College of Education Assessment Data Forum, DeKalb, IL.
171. **Walker, D. A.** (2011, March). *Exit surveys and other measures of students' perceptions and/or abilities*. Northern Illinois University, College of Education Assessment Data Forum, DeKalb, IL.
172. **Walker, D. A.** (2011, February). *Diversity proficiencies*. Northern Illinois University, College of Education Assessment Data Forum, DeKalb, IL.
173. **Walker, D. A.** (2010, November). *Response to intervention*. Northern Illinois University, Committee on Initial Teacher Certification RtI Forum, DeKalb, IL.
174. **Walker, D. A.** (2010, September). *The College of Education's assessment systems: An introduction for new faculty*. Northern Illinois University, College of Education New Faculty Forum, DeKalb, IL.
175. **Walker, D. A.** (2009, September). *Assessment and data collection for program improvement*. Northern Illinois University, College of Education New Faculty Forum, DeKalb, IL.
176. **Walker, D. A.** (2009, April). *Resampling methods: The bootstrap and jackknife*. Northern Illinois University, Educational Technology, Research, and Assessment Course on Methods of Multivariate Analysis, DeKalb, IL.

177. **Walker, D. A.** (2008, November). *Theoretical and basic uses for my teaching, research, and service*. Northern Illinois University, Educational Psychology Course on Professional Practices in Educational Psychology, DeKalb, IL.
178. **Walker, D. A.** (2008, September). *The role of assessment, data, and LiveText in teacher education credentialing and degree program review*. Northern Illinois University, College of Education New Faculty Forum, DeKalb, IL.
179. **Walker, D. A.** (2008, April). *Bootstrapping techniques*. Northern Illinois University, Educational Technology, Research, and Assessment Course on Methods of Multivariate Analysis, DeKalb, IL.
180. **Walker, D. A.** (2008, March). *Program-level assessment initiatives and plans*. Northern Illinois University, Educational Foundations Forum on Assessment, DeKalb, IL.
181. **Walker, D. A.** (2007, October). *Assessment and data use*. Northern Illinois University, College of Education New Faculty Forum, DeKalb, IL.
182. **Walker, D. A.** (2007, October). Scholarship and productivity: Strategies for developing and maintaining an active research agenda. In D. Jenkins (Chair), *Tips for successful scholarly writing*. Mid-Western Educational Research Association, St. Louis, MO.
183. **Walker, D. A.** (2007, May). *Research tools for in-class observations and data analysis*. Northern Illinois University, College of Education ITAAR Project, DeKalb, IL.
184. **Walker, D. A.** (2007, February). *REAL teacher quality enhancement: Results from a university-urban school district partnership*. The Associated Colleges of Illinois, Chicago, IL.
185. **Walker, D. A.** (2007, February). *Statistical and design methods: Theoretical and basic uses for my research and teaching*. Northern Illinois University, Educational Technology, Research, and Assessment Pro-seminar in Educational Research and Evaluation, DeKalb, IL.
186. **Walker, D. A.** (2006, November). *Assessment for program improvement*. Northern Illinois University, College of Education New Faculty Forum, DeKalb, IL.
187. **Walker, D. A.** (2006, November). *The College of Education's assessment tools for internal and external program improvement*. Northern Illinois University, Campus Assessment Network, DeKalb, IL.
188. **Walker, D. A.** (2006, April). *The use of a handheld computer and internet-based score reliability calculator for observational data collection and analysis*. Northern Illinois University, College of Education ITAAR Project, DeKalb, IL.



189. **Walker, D. A.** (2005, October). *Predicting group membership and the ranking of predictor variables using NAEP math data*. Gold Standard(s) of Quality Research in Science Literacy Conference, University of Victoria, British Columbia, Canada.
190. **Walker, D. A.** (2004, October). Bootstrapping techniques in AMOS. In C. Cappell (Chair), *Current practices in SEM: Issues and controversy*. Mid-Western Educational Research Association, Columbus, OH.
191. **Walker, D. A.** (2004, March). *Using web-based instructional supplements to promote the pedagogical delivery of measurement and research courses*. Northern Illinois University, College of Education PT3 CENTTER Project, DeKalb, IL.
192. **Walker, D. A.** (2002, June). *Effect size and mean score change from 4th to 8th grade by state: NAEP math (1992-96) and reading (1994-98)*. NAEP Analysis Institute, Potomac, MD.
193. **Walker, D. A.** (2002, January). *To weight or not to weight: Design effect examples using databases from the National Center for Education Statistics*. Florida Atlantic University, College of Education Faculty Research Program, Boca Raton, FL.
194. **Walker, D. A.** (2001, November). Teaching an undergraduate measurement course. In L. M. Carey (Chair), *Classroom assessment: Supporting teachers and learning*. Florida Educational Research Association, Marco Island, FL.
195. **Walker, D. A.** (2001, August). *The effects of correct weighting on cell sizes and the chi-squared statistic: A TIMSS-R example*. TIMSS-R Analysis Institute, Potomac, MD.
196. **Walker, D. A.** (2001, June). *A longitudinal analysis of student affairs programming expenditures: IPEDS data, 1991-1995*. NSF/NCES/AIR Summer Data Institute, Potomac, MD.
197. **Walker, D. A.** (2000, June). *Study abroad experiences*. Iowa State University, College of Education Student Affairs Institute, Ames, IA.

## RESEARCH HONORS

- *Recipient*, Iowa State University of Science and Technology Virgil S. Lagomarcino Laureate Award, 2017
- *Recipient*, Society for Information Technology and Teacher Education Honorable Mention Poster Presentation Award, 2009.
- *Recipient*, NIU College of Education Research Award, 2004.
- *Recipient*, American Educational Research Association Distinguished Paper Award via the Consortium of State and Regional Educational Research Associations (SRERA), 2003.
- *Nominee*, Distinguished Paper Award, Florida Educational Research Association, 2003.
- *Nominee*, Best Paper Award, Association for Institutional Research, 2003.
- *Recipient*, Distinguished Paper Award, Florida Educational Research Association, 2002.
- *Fellow*, National Center for Education Statistics, Washington, D.C., 2002.
- *Fellow*, National Center for Education Statistics, National Science Foundation, & Association for Institutional Research, Washington, D.C., 2001.

## **INSTRUCTION: UNIVERSITY**

### **Northern Illinois University:**

- Various 799: Dissertation (Chair)
- ETR 722: Methods of Multivariate Analysis
- ETR 720: Advanced Research Methods in Education
- ETR 699A, B, C: Thesis, Research Project, Portfolio (Chairs)
- ETR 597/797: Independent Studies:
  - Advanced Literature Review
  - Binary Logistic Regression
  - Dissertation Methodological Alignment
  - Factor Analyses
  - Instrument Development
  - Multiple Linear Regression
  - Regression: Mediation
  - Secondary Data Analyses
  - Survey Research
- ETR 590/790: Workshops in Research and Assessment:
  - Academic Research Conference Study
  - Advanced Data Analyses in SPSS Software
  - Categorical and Ordinal Logistic Regression Modeling
  - Factor Analysis: PCA, EFA, and CFA Methods using SPSS and AMOS Software
  - Factor Analyses and Reliability/Instrument Quality Analysis
  - Multicollinearity Alternative Techniques: Ridge Regression and Principal Components Regression
- ETR 587: Practicum in Educational Research and Evaluation
- ETR 586: Internship in Research and Evaluation
- ETR 522: Educational Statistics II
- ETR 521: Educational Statistics I
- ETR 520: Introduction to Educational Research
- ETR 501/592: Special Topics in Research and Assessment
  - Conference Study and Presentation at the American Educational Research Association
  - Conference Study and Presentation at the Midwestern Educational Research Association
- ETR 440: Secondary Classroom Assessment
- ETR 430: Tests and Measurement

### **Florida Atlantic University:**

- EDF 3430: Measurement and Evaluation
- EDA 7943: Field Project: Structural Equation Modeling

### **Iowa State University:**

- RE 550: Educational Research

## **INSTRUCTION: INTERNATIONAL**

- *Community Development Educator*, United States (U.S.) Peace Corps & the Islamic Republic of Mauritania Ministry of Health, Nouakchott, Mauritania, 1992 - 1994.
- *Water & Health Instructor*, U.S. Peace Corps, Kaedi, Mauritania, 1993.
- *Training Specialist*, Centre d'Etudes et de Recherche, Tshikaji, Democratic Republic of Congo, 1990 - 1991.
- *Water & Sanitation Instructor*, U.S. Peace Corps & the Institut Supérieur Pédagogique, Bukavu, Democratic Republic of Congo, 1990.
- *Water & Sanitation Educator*, U.S. Peace Corps & the Democratic Republic of Congo Ministry of Health, Kinshasa, Democratic Republic of Congo, 1989 - 1991.

**GRADUATE STUDENTS: MASTER' S**

<b>Student</b>	<b>Title</b>	<b>Discipline</b>	<b>Study</b>	<b>Completed</b>
Erin Carney	<i>Associations of Intuitive Eating Scores and Perceived Stress Levels in College Students</i>	Nutrition and Dietetics	Thesis	M.S. Pending
Karen Jensen	<i>The Relationship Between Knowledge of and Confidence in Sports Nutrition Knowledge Among Division I Collegiate Cross Country and Track &amp; Field Athletes and Coaches</i>	Nutrition and Dietetics	Non-Thesis Research Project	M.S. Pending
Natasha Kirkbride	<i>Effect of Tart Cherry Juice on Inflammation, Pain, and Strength in Resistance-Trained Individuals</i>	Nutrition and Dietetics	Thesis	M.S. Pending
Kayla Droessler	<i>Assessment of Sports Nutrition Knowledge and Dietary Intake of Division I Collegiate Cross Country and Track &amp; Field Athletes and Coaches</i>	Nutrition and Dietetics	Non-Thesis Research Project	M.S. Pending
Amanda Early	<i>Problem Based Learning and the Next Generation Science Standards</i>	Biological Sciences	Non-Thesis Research Project	M.S. Pending
Amy Martin	<i>Confirmatory Factor Analysis of an Evangelical Christian Identity Scale</i>	Educational Research and Evaluation	Non-Thesis Research Project	M.S. Pending
Lori Townsend	<i>ERE Master's Portfolio</i>	Educational Research and Evaluation	Portfolio	M.S. 2017
Lori Townsend	<i>Co-Teaching ETR 450: Data Analysis for Design and Evaluation, NIU</i>	Educational Research and Evaluation	Practicum	2017
Brittany Hyde	<i>ERE Master's Portfolio</i>	Educational Research and Evaluation	Portfolio	M.S. 2016
Tawanda Gibson	<i>ERE Master's Portfolio</i>	Educational Research and Evaluation	Portfolio	M.S. 2016
Ryan Kopatich	<i>Linguistic Distance and ESL Experiences</i>	Cognitive and Instructional Psychology	Independent Study: Regression - Mediation	2016

Lori Townsend	<i>An Application of the UTAUT Model for Understanding Attitudes Toward Online Training and Professional Development among American Workers</i>	Educational Research and Evaluation	Independent Study: Instrument Development	2016
Joshua Alis	<i>The Effects of a Coconut Water Electrolyte Beverage on Blood Glucose and Lactate Concentrations</i>	Kinesiology and Physical Education (Exercise Physiology)	Thesis	M.S.Ed. 2015
Rayanne Nguyen	<i>The Effectiveness of a Coconut Beverage on Exercise Performance</i>	Nutrition and Dietetics	Thesis	M.S. 2015
Ellen Pudney	<i>Impact of Client-Centered Tailored vs. Expert-Centered Tailored Nutrition Education on the Perceived Autonomy of Food Pantry Clients</i>	Nutrition and Dietetics	Thesis	M.S. 2015
Chenda Hong	<i>Predictors of Attitudes Toward the Use of Moodle for Learning English in a Blended Learning Environment in Cambodia</i>	Educational Research and Evaluation	Thesis	M.S. 2015
Alecia Huggler	<i>The Effect of Diabetes Self-Management Training on Perceived Quality of Life</i>	Nutrition and Dietetics	Thesis	M.S. 2015
Meagan O'Connor	<i>Effects of Eccentric Weight Training and a Whey Beverage on Muscular Hypertrophy and Strength in Trained Males</i>	Nutrition and Dietetics	Thesis	M.S. 2015
Amy Martin	1. <i>Teaching ETR 520: Introduction to Educational Research, NIU</i> 2. <i>Assessment Measures of Job Candidates, Alabama</i>	Educational Research and Evaluation	Practicum	2015
Chenda Hong	<i>Voice of America-Cambodia, Washington, D.C.</i>	Educational Research and Evaluation	Internship	2014
Chenda Hong	<i>Predictors of English Learners' Attitudes toward the Use of Moodle in Cambodia</i>	Educational Research and Evaluation	Independent Study: Survey Research	2014
Anna Collins	<i>Achievement and Aspirations in Mathematics and Science: Associations with Gifted Students' Flow Experiences</i>	Educational Psychology	Thesis	M.S.Ed. 2013

Rebecca Picchi	<i>Block Scheduling and PSAE Scores</i>	Educational Research and Evaluation	Non-Thesis Research Project	M.S. 2012
Nigorahon Hamidova	<i>Students' Beliefs about and Attitudes Toward Science: Are They Different?</i>	Educational Psychology	Thesis	M.S.Ed. 2011
Neal Naftzger	<i>Using Rasch Modeling Techniques to Address Issues of Reliability and Error Variation in Ecometric-Oriented Studies</i>	Educational Research and Evaluation	Thesis	M.S. 2011
Lulilia Palermo	<i>Examining Spanish Speaking Parents' Early Literacy Practices at Home and the Performance of their Pre-School Children on the Developmental Indicator for the Assessment of Learning-Third Edition (DIAL-3)</i>	Educational Research and Evaluation	Non-Thesis Research Project	M.S. 2009
Lorrie Erazmus	<i>High School Females' Attitudes Toward Science</i>	Educational Psychology	Non-Thesis Research Project	M.S.Ed. 2007
William Trapp	<i>Criteria to Evaluate Interpretive Guides for Criterion-Referenced Tests</i>	Educational Research and Evaluation	Non-Thesis Research Project	M.S. 2007
Madhurima Grover	<i>Conducting Factor Analysis with Models in Instructional Technology</i>	Instructional Technology	Independent Study: Factor Analyses	2004

**GRADUATE STUDENTS: DOCTORAL**

<b>Student</b>	<b>Title</b>	<b>Discipline</b>	<b>Study</b>	<b>Completed</b>
David Carroll	<i>The Reciprocal Effects of Band Instruction and Text Reading Strategies among Beginning Band Students</i>	Curriculum and Instruction	Dissertation	Ed.D. Pending
Paulina Levy	<i>Increasing Middle School Content Knowledge Using Writing to Learn</i>	Literacy	Dissertation	Ed.D. Pending
Samantha Coyle	<i>Peer Social Support, Self-Efficacy Beliefs and Social Anxiety in Adolescence: A Test of Competing Models</i>	School Psychology	Dissertation	Ph.D. Pending
Donna Kurtz	<i>The Use of a Knowledge Mapping Tool in Developing Critical Thinking Skills of Baby Boomers in the Workplace</i>	Instructional Technology	Dissertation	Ph.D. Pending
Lori Townsend	<i>A Sequential Explanatory Mixed Methods Analysis of Adjunct Faculty Attitudes Toward Online Training and Professional Development: Extending a UTAUT Model Survey With In-Depth Follow-Up Interviews</i>	Instructional Technology	Dissertation	Ph.D. Pending
Kristin Callahan	<i>A Mixed Methods Investigation of Socially Conscious Andragogy in Undergraduate Communication Design Programs</i>	Art Education	Dissertation	Ph.D. Pending
Missy Lugo	<i>The Use of Latino Critical Race Theory to Explain the Relationship Between Mentor Needs and Doctoral Completion</i>	Counseling	Dissertation	Ph.D. Pending
Kelly Smith	<i>Preparedness of Student Affairs Professionals: Does a Counseling Degree Make a Difference?</i>	Counseling	Dissertation	Ph.D. Pending



Charles Cain	<i>Examining the Relationship Between Two Sources of Self-Efficacy and Self-Efficacy About Instructional Technology in the PK-12 Classroom</i>	Instructional Technology	Dissertation	Ph.D. Pending
Leonard Grinstead	<i>Student Perceptions of a Customer Service Model in a For-Profit Higher Education Institution</i>	Adult & Higher Education	Dissertation	Ed.D. Pending
Lucy Parker	<i>Exploration of Humor as a Coping Mechanism and Moderator to Crisis Counselor Burnout</i>	Counseling	Dissertation	Ph.D. Pending
Iwona Lech	<i>Usage-Based Instruction Approach in the Second-Language Classroom: An Application of Linguistic Theory</i>	Educational Psychology	Dissertation	Ph.D. Pending
Kenie Moses	<i>The Effect of Using a Mobile Intelligent Tutor for Circuit Analysis and its Influence on Scaffolded Decision Making and Problem Solving in Higher Education</i>	Instructional Technology	Dissertation	Ph.D. Pending
Raymond Geosling	<i>Investigating the Association among Perceived Social Support, Neuroticism, Extraversion, and Depressive Symptoms in Early Adolescents</i>	School Psychology	Dissertation	Ph.D. 2017
Tracy Peed	<i>School Counselor Supervisor Self-Efficacy and Professional Identity Related to Clinical Supervision Training and Willingness to Supervise</i>	Counseling	Dissertation	Ph.D. 2017
Denise Cote	<i>Examining Community College Faculty Attitudes Toward Open Educational Resources: A Mixed Methods Study</i>	Instructional Technology	Dissertation	Ph.D. 2017

Vicky McClure	<i>The Impact of the Microsoft Office PowerPoint Program on Students with Medical Conditions in a Home and Hospital Program</i>	Instructional Technology	Dissertation	Ph.D. 2017
Kelly Gross	<i>Art Education for Students with Emotional Disabilities</i>	Art Education	Dissertation	Ph.D. 2017
Joseph Ehrmann	<i>Using the Surveys of Enacted Curriculum to Predict Instructional Alignment from Professional Learning Community Components</i>	Curriculum and Instruction	Dissertation	Ed.D. 2017
Brian Glick	<i>Professional Identity of Student Conduct Administrators</i>	Adult & Higher Education	Dissertation	Ed.D. 2016
Christopher Grodoski	<i>Creativity, Policy, and Practice: A Three State Exploration of Relationships between Definitions of Creativity in State Art Education Policies and its Application by Middle Level Art Educators</i>	Art Education	Dissertation	Ph.D. 2016
Melissa Nordstrom Terry	<i>Social Support and Academic Engagement: Perceptions of Students with a Disability</i>	School Psychology	Dissertation	Ph.D. 2016
Tracy Taylor	<i>The Role of Interpersonal Trust and Authentic Leadership in the Language Development Success of Middle School English Language Learners</i>	Curriculum and Instruction	Dissertation	Ed.D. 2016
Manal Alkarzon	<i>Gender Differences in Attitudes toward Online Training in Qatar Private Institutions</i>	Instructional Technology	Dissertation	Ph.D. 2016

Hamed Al-Shahrani	<i>Investigating the Determinants of Mobile Learning Acceptance in Higher Education in Saudi Arabia</i>	Instructional Technology	Dissertation	Ph.D. 2016
Charles Cain	<i>Examining the Relationship among Pre-Kindergarten Center Experience, Socio-Economic Status, and Academic Achievement</i>	Instructional Technology	Independent Study: Secondary Data Analyses Using the Early Childhood Longitudinal Study (2011)	2015
Erika Schlichter	<i>Professional Learning Communities: Teacher Perception of Components of Professional Learning Communities in High Schools</i>	Educational Administration	Dissertation	Ed.D. 2015
Joseph Ehrmann	<i>Quantifying the Alignment of Classroom Instruction with National Standards and Assessments Using SEC Surveys</i>	Curriculum and Instruction	Independent Study: Dissertation Methodological Alignment	2015
Gabriel Osorio	<i>Bridging the Gap Between Educational Technology and Social Networking: A Citation Network Analysis</i>	Instructional Technology	Independent Study: Citation Network Analysis using Sci2 Software	2015
Fahad Al-Shahrani	<i>Identifying Faculty Online Teaching Self-Efficacy and Examining the Relationship Among Faculty Cultural Dimensions and Online Teaching Self-Efficacy Towards the Adoption of Online Education</i>	Instructional Technology	Independent Study: Multiple Linear Regression	2014
Paula DiDomenico	<i>High School Teachers' Disciplinary Literacy Knowledge: A Mixed Methods Study</i>	Literacy	Dissertation	Ed.D. 2014
Jackie Murawska	<i>Pre-Service Elementary School Teachers' Conceptual Understanding of Place Value within a Constructivist Framework</i>	Curriculum and Instruction	Dissertation	Ed.D. 2013

Joseph Ehrmann	<i>EXPLORE, ACT, and GPA as Predictors of Low or High Socio-Economic Status?</i>	Curriculum and Instruction	Independent Study: Binary Logistic Regression	2013
Jonathan Paver	<i>Factors Influencing the Integration of Technology by Community College Adjunct Faculty</i>	Instructional Technology	Dissertation	Ed.D. 2012
Muhannad Al-Shboul	<i>Faculty Attitudes and Perceptions Concerning the Use of Course Management Systems in Higher Education</i>	Instructional Technology	Dissertation	Ed.D. 2007
Shereeza Mohammed	<i>State Planning Strategies to Implement the Scientific Based Research Components of the NCLB Act</i>	Educational Leadership	Dissertation	Ph.D. 2005
Shereeza Mohammed	<i>Using Structural Equation Models with National Assessment of Educational Progress (NAEP) Data</i>	Educational Leadership	Independent Study: Structural Equation Modeling	2003

## **RESEARCH SERVICE**

### **Editor and Editorial Board:**

- Editor: *General Linear Model Journal*, 2010 - Present.
- Editorial Board Member: *Journal of Modern Applied Statistical Methods*, 2003 - Present.
- Editorial Advisory Board: *Mid-Western Educational Researcher*, 2014 - 2015.
- Editorial Board Member: *Community College Journal of Research and Practice*, 2011 - 2014.
- Editorial Board Member: *Multiple Linear Regression Viewpoints*, 2008 - 2010.
- Editorial Board Member: *NASPA Journal*, 2003 - 2006.
- Consulting Editor: *Journal of Experimental Education*, 2006 - 2007.
- Associate Editor: *The International Journal of Learning*, 2005.
- Editorial Board Member: On the Campus and Research in Brief sections of the *Journal of College Student Development*, 1998 - 2000.

### **Manuscript and Proposal Reviewer:**

- Proposal Reviewer: American Educational Research Association's (AERA) Special Interest Group (SIG): Multiple Linear Regression - The General Linear Model (MLR - GLM), 2004 - Present.
- Proposal Reviewer: AERA Division D, 2001 - Present.
- Manuscript Reviewer: *Journal of Teacher Education*, 2008 - 2012.
- Manuscript Reviewer: *TechTrends*, 2008.
- Manuscript Reviewer: *Educational Researcher*, 2007 - 2008.
- Manuscript Reviewer: *Current Issues in Education*, 2004 - 2006.
- Proposal Reviewer: National Council on Measurement in Education, 2003 - 2005.
- Manuscript Reviewer: *Journal of College Student Development*, 2004.
- Manuscript Reviewer: *NASAP Journal*, 2004.
- Proposal Reviewer: AERA SIG: Research Using NAEP Data, 2003 - 2004.
- Proposal Reviewer: Midwest Educational Research Association (MWERA): 1) Division D, 2003-Present; 2) Division H, 2003 - Present; 3) Division K, 2012; 4) Division L, 2010.
- Manuscript Reviewer: *Mid-Western Educational Researcher*, 2006 - 2009.
- Proposal Reviewer: Florida Educational Research Association, 2002 - 2004.

### **Leadership Positions:**

- Association Council: MWERA, 2017 - Present.
- Board Member: RateCreative, 2013 - Present.
- Immediate Past President: MWERA, 2014 - 2015.
- President: MWERA, 2013 - 2014.
- Board Member: Illinois Education Research Council, 2013 - 2015.
- Vice-President: MWERA, 2012 - 2013.
- Vice President, Elect and Conference Program Chair: MWERA, 2011 - 2012.
- Vice President Elect, Elect: MWERA, 2010 - 2011.
- Program Chair: Division L MWERA, 2010.
- Program Chair: AERA SIG: MLR - GLM, 2008 - 2009.
- Association Council: MWERA 2006 - 2008.

### **PROFESSIONAL MEMBERSHIPS**

AACTE: American Association of Colleges for Teacher Education

AERA: American Educational Research Association

IACTE: Illinois Association of Colleges for Teacher Education

IADPCE: Illinois Association of Deans of Public Colleges of Education

Multiple Linear Regression: The General Linear Model Special Interest Group

MWERA: Mid-Western Educational Research Association

PKP: Phi Kappa Phi Honor Society