

Thomas J. Smith, Ph.D.

Curriculum Vitae

Education

University of Illinois (Urbana-Champaign), Ph.D., Quantitative Psychology, 2000

University of Illinois (Urbana-Champaign), M.S., Statistics, 1997

University of St. Thomas (St. Paul, MN), B.A., Psychology, 1988

Professional Experience

2017-present Presidential Teaching Professor, Northern Illinois University

2014-2017 Professor of Education, Northern Illinois University

2006-2014 Associate Professor of Education, Northern Illinois University

2000-2006 Assistant Professor of Education, Northern Illinois University

1992-2000 Teaching and Research Assistant, University of Illinois

Grants/contracts/awards

2019 Best Paper Award: Adult Literacy Special Interest Group: American Educational Research Association

2018 American Institutes for Research. Secondary data analysis of 2013 PIAAC data. With A. Rose, M C. Smith, J. Ross-Gordon, et al. \$8000.

2017 Best Paper Award: National Council for Geographic Education

2017 Presidential Teaching Professor, Northern Illinois University

2016 Best Paper Award: Adult Literacy Special Interest Group: American Educational Research Association

2015 U.S. Dept. of Ed. (Federal). \$550,000.00. Unified English Braille Online Training. Role: Project Evaluator.

2014 American Institutes for Research. Secondary data analysis of 2013 PIAAC data. With M Cecil Smith, A. Rose, and J. Ross-Gordon. \$8000.

2009 National Center for Educational Statistics (NCES): Secondary data analysis of 2003 National Assessment of Adult Literacy (NAAL). With M Cecil Smith. \$8000.

2009 Alyce Kramer Marcus Outstanding Educator Award.

2009 National Center for Educational Statistics (NCES): Secondary data analysis of 2003 National Assessment of Adult Literacy (NAAL). With M Cecil Smith. \$8000.

2009 National Center for Educational Statistics (NCES): Secondary data analysis of 2009 Real Word Reading data. With M Cecil Smith. \$8000.

2008 National Center for Educational Statistics (NCES): Secondary data analysis of 2003 National Assessment of Adult Literacy (NAAL). With M Cecil Smith. \$8000.

- 2008 National Science Foundation (NSF) Course, Curriculum, and Laboratory Improvement grant. *Development of a Cognitive Tutor for Training Social and Behavioral Science Students in Research Methods Fundamentals* (Co-PI with M C. Smith and W. C. Hung.). Three years, \$150,000.
- 2008 Northern Illinois University Summer Research and Artistry grant \$3000
- 2006 College of Education Instructional Support Grant (with Wei-Chen Hung, \$2000 and research assistantship)
- 2005 College of Education Scholarship Support Grant (with Wei-Chen Hung, \$2000)
- 2002 Northern Illinois University Portfolio Development Grant (workshop expenses)
- 2002 Exceptional Contributions in Teaching award (N.I.U. College of Education)
- 2002 David W. Raymond Grant for Use of Technology in Teaching (with M Cecil Smith) \$2000
- 2002 Northern Illinois University Multicultural Transformation Institute grant \$1000
- 2002 Northern Illinois University Assessment Panel Workshop grant (with Cynthia Campbell) \$700
- 2002 Northern Illinois University Summer Research and Artistry grant \$3000
- 2001 Northern Illinois University Summer Research and Artistry grant \$3000
- 2001 Faculty Summer Institute on Learning Technologies travel grant, Champaign, IL (travel and course fee provisions)

Professional memberships

Association for Assessment in Counseling and Education
 American Educational Research Association
 Mid-Western Educational Research Association
 American Evaluation Association

Publications

- Smith, T. S.**, Walker, D. A., Chen, H-T., & Hong, Z-R. (in press). Students' Sense of School Belonging and Attitude towards Science: A Cross-Cultural Examination. *International Journal of Science and Mathematics Education*.
- Chen, Y., Mayall, H. J., York, C. S., & **Smith, T. J.** (in press). Parental perception and English Learners' mobile-assisted language learning: An ethnographic case study from a technology-based Funds of Knowledge approach. *Learning, Culture, and Social Interaction*, 22, doi: 10.1016/j.lcsi.2019.100325 [Received AECT 2018 Qualitative Inquiry Award]
- Chen, Y., **Smith, T. J.**, York, C. S., & Mayall, H. J. (in press). Google Earth virtual reality and expository writing for young English learners from a Funds of Knowledge perspective. *Computer Assisted Language Learning*
 DOI: <https://doi.org/10.1080/09588221.2018.1544151>
- Luo, W., **Smith, T. J.**, Whalley, K., Darling, A., Ormand, C., Hung, W-C., Chiang, J-L., Pelletier, J., & Duffin, K. (in press). Earth surface modeling for education: How

- effective is it? Four semesters of classroom tests with WILSIM-GC. *British Journal of Educational Technology*.
- Walker, D. A., Reeves, T. D., & **Smith, T. J.** (2018). Confirmation of the Data Driven Decision-Making Efficacy and Anxiety Inventory's score factor structure among teachers. *Journal of Psychoeducational Assessment*, 36(5), 477-491.
- Pinter, E., Van Laarhoven, T., **Smith, T.J.**, Clemens, S., DeYoung, T. (2018). A Research Summary: Career Development and Vocational Preparation in Middle and High School: A Look at What Students in Illinois Are Getting. *Illinois Alliance of Administrators of Special Education (IAASE) Newsletter*, 452(2), 4-5.
- Pinter, E., Van Laarhoven, T., **Smith, T.J.**, Clemens, S., DeYoung, T. (2018). Career Development and Vocational Preparation in Middle/High School: What are Students in Illinois Really Getting? *Scope*, 51(3), 1-3.
- Hsu, P.-S., Van Dyke, M., Natividad, G., **Smith, T. J.** (2018). Argue like a Scientist with Technology: The effect of within-gender vs. cross-gender team argumentation on science knowledge and argumentation skills among middle-level students. *Educational Technology, Research and Development*, 66(3), 733-766.
- Kapperman, G., Kelly, S., Kilmer, K., **Smith, T. J.** (2017). An assessment of the Tinder online mobile dating application applied to individuals who are visually impaired. *Journal of Visual Impairment and Blindness*, 111(4), 369-374.
- Chen, Y., Carger, C. L., & **Smith, T. J.** (2017). Mobile-Assisted narrative writing practice for young English Language Learners from a Funds of Knowledge approach. *Language Learning and Technology*, 21(2), 28-41.
- Walker, D. A., & **Smith, T. J.** (2017). Computing robust, bootstrap-adjusted fit indices for use with non-normal data. *Measurement and Evaluation in Counseling and Development*, 50(1-2), 131-137.
- Hsu, P.-S., Van Dyke, M., Chen, Y., & Smith T. J. (2016). A cross-cultural study of the effect of a project-based learning environment that incorporates a graph-oriented, computer-assisted application on middle school students' science knowledge and scientific argumentation. *Journal of Computer Assisted Learning*, 32(1), 51-76.
- King, C., **Smith, T. J.**, Grandin, T., & Borchelt, P. (2016). Anxiety and impulsivity: Factors associated with premature graying in dogs. *Applied Animal Behaviour Science*, 185 (December), 78-85. Available at: [http://www.appliedanimalbehaviour.com/article/S0168-1591\(16\)30277-5/fulltext](http://www.appliedanimalbehaviour.com/article/S0168-1591(16)30277-5/fulltext)

- Smith, T. J.,** Smith, M C., Rose, A. D., & Ross-Gordon, J. M. (2016). An assessment of the factor structure and factorial invariance of scores from the Readiness to Learn scale. *Journal of Learning and Individual Differences, 49*, 230-236.
- Shin, E. K., Milson, A. J., & **Smith, T. J.** (2016). Future teachers' spatial thinking skills and attitudes: A comparison of elementary and secondary education majors with geography majors. *Journal of Geography, 115*(4) 139-146.
- 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), Article 43.
- Hsu, P.S., Chen, Y., van Dyke, M., & **Smith, T. J.** (2015). The effect of a graph-oriented, computer assisted, project-based learning environment on middle school students' science knowledge and argumentation skills. *Journal of Computer Assisted Learning, 31*(1) 32-58.
- Hung, W.-C., **Smith, T. J.**, & Smith, M. (2015). Design and usability assessment of a dialogue-based cognitive tutoring system to model expert problem solving in research design. *British Journal of Educational Technology, 46*(1), 82-97.
- King, C., Buffington, L., **Smith, T. J.**, & Grandin, T. (2014). Use of a pressure wrap (Thundershirt) as a treatment for canine anxiety. *Journal of Veterinary Behavior, 9*, 215-221.
- Smith, T. J.**, Pasero, S., & McKenna, C. M. (2014). Gender Effects in Student Attitude Toward Science Among Fourth- and Eighth-Grade Students in the United States. *Bulletin of Science, Technology, & Society, 34*(1-2), 7-12.
- Van Laarhoven-Myers, T. E., Van-Laarhoven, T. R., **Smith, T. J.**, Johnson, H., & Olson, J. (in press). Promoting self-determination and transition planning using technology: Student and parent perspectives. *Career Development and Transition for Exceptional Individuals*.
- Smith, T. J.**, McKenna, C. M., Hines, E. (2014). The association of group learning with math achievement and math attitude among eighth-grade students in the U.S. *Learning Environments Research, 17*(2), 229-241.
- Rossetti, J. R., Musker, K.M., & Smith, T. J. (2014). Using findings from the Human Rights Authority Reports to inform psychiatric nursing practice. *Journal of the American Psychiatric Nurses Association*.
- 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 Regressions Viewpoints*.

- Derby, D., & **Smith, T. J.** (2014). Behavioral consequences of drinking: An investigation of factorial invariance across gender. *Measurement and Evaluation in Counseling and Development*, 47(1), 52-61.
- Henry, B., **Smith, T. J.**, & Ahmad, S. (2014). Psychometric assessment of the Behavior and Attitudes Questionnaire for Healthy Habits: Measuring parents' views on food and physical activity. *Public Health Nutrition*, 17(5), 1004-1012.
- Smith, T. J.**, & McKenna, C. M. (2013). A comparison of logistic regression pseudo R^2 indices. *Multiple Linear Regression Viewpoints*, 39(2), 17-26.
- Jung, M.**, Hartman, P. A., **Smith, T. J.**, Wallace, S. R. (2013). The effectiveness of teaching number relationships in preschool. *International Journal of Instruction*.
- Piper, T. J., Radlo, S. J., **Smith, T. J.**, and Woodward, R. W. (2012). Dynamic balance abilities of college males for the bench press. *Journal of Strength & Conditioning Research*.
- Kapperman, G. G., Sticken, J., **Smith, T. J.** (2012). Effectiveness of the BrailleNote Nemeth Code Tutorial: A follow-up study. *AER Journal: Research and Practice in Visual Impairment and Blindness*, 5(3), 168-174.
- Smith, T. J.**, McKenna, C. M. (2012). An examination of ordinal regression goodness-of-fit indices under varied sample conditions and link functions. *Multiple Linear Regression Viewpoints*, 38(1), 1-7.
- Smith, T. J.**, & Wallace, S. (2011). Social skills of children in the U.S. with comorbid learning disabilities and AD/HD. *International Journal of Special Education*, 26(3), 238-247.
- Smith, T. J.**, & McKenna, N. M. (2011). A weighted test of internal symmetry. *Journal of Applied Statistics*, 38(10), 2111-2118.
- Zebehazy, K., & **Smith, T. J.** (2011). An examination of characteristics related to social skill ability of youths with visual impairments. *Journal of Visual Impairment and Blindness*, 105(2), 84-95.
- Kapperman, G., Sticken, J., & **Smith, T. J.** (2011). The effectiveness of the Nemeth Code Tutorial for BrailleNote. *AER Journal: Research and Practice in Visual Impairment and Blindness*, 4(1), 22-28.
- Smith, M C., & **Smith, T. J.** (2010). Adults' Uses of Computer Technology: Associations with Literacy Tasks. *Journal of Educational Computing Research*, 42(4), 407-422.

- Smith, M C., & **Smith, T. J.** (2010). Perceived job skill limitations and participation in education and training opportunities: Differences between U.S. native-born and non-native-born individuals. *Vocations and Learning*, 3, 55-69.
- Hung, W., **Smith, T. J.**, Harris, M. S., & Lockard, J. (2010). Developmental research of a teachers' educational performance support system: The practices of design, development, and evaluation. *Educational Technology, Research and Development*, 58(1), 68-80.
- Henry, B. W., White, N. J., **Smith, T. J.**, & LeDang, L. T. (2010). An Exploratory Look at Teacher Perceptions of School Food Environment and Wellness Policies. *Infant, Child, and Adolescent Nutrition*, 2(5), 304-311.
- Henry, B. W., & **Smith, T. J.** (2009). Evaluation of the FOCUS (Feedback on Counseling Using Simulation) instrument for assessment of client-centered nutrition counseling behaviors. *Journal of Nutrition Education and Behavior*, 42(1), 57-62.
- Henry, B. W., Duellman, M. C., & **Smith, T. J.** (2009). Nutrition-based standardized patient sessions increased counseling awareness and confidence among dietetic interns. *Topics in Clinical Nutrition*, 24(1), 25-34.
- Smith, T. J.**, & Campbell, C. (2009). The relationship between occupational values and interests. *Journal of Career Assessment*, 17(1), 39-55.
- Shumow, L., **Smith, T. J.**, and Smith, M C. (2009). Academic and behavioral characteristics of young adolescents in self care. *Journal of Early Adolescence*, 29(2), 233-257.
- Van Laarhoven, T., Munk, D. D., Zurita, L. M., Lynch, K., & Zurita, V., **Smith, T.**, & Chandler, L. K. (2008). The effectiveness of using video tutorials to teach pre-service educators to use assistive technologies. *Journal of Special Education Technology*, 23(4), 31-45.
- Kelly, S., & **Smith, T. J.** (2008). The Digital Social Interactions of Students with Visual Impairments in the U.S.: Findings from the Special Education Elementary Longitudinal Study and the National Longitudinal Transition Study-2. *Journal of Visual Impairment and Blindness*, 102(9), 528-539.
- Smith, M C., & **Smith, T. J.** (2008). Low-education adults' participation in informal learning activities: Relationships with selected demographic characteristics. *Adult Basic Education and Literacy Journal*, 2(2), 67-73.
- Derby, D., & **Smith, T. J.** (2008). Exploring the factorial structure for behavioral consequences of college student drinking. *Measurement and Evaluation in Counseling and Development*, 41(1), 32-41.

- Adams, G. B., **Smith, T. J.**, Bolt, S. E., & Nolten, P. (2007). Current educational practices in classifying and serving students with obsessive-compulsive disorder. *The California School Psychologist*, 12, 93-104.
- Smith, T. J.**, & Campbell, C. (2006). The structure of O*NET occupational values. *Journal of Career Assessment* 14(4), 437-448.
- Smith, T. J.**, & Adams, G. (2006). The effect of comorbid AD/HD and learning disabilities on parent-reported behavioral and academic outcomes of children. *Learning Disability Quarterly*, 29(2), 101-112.
- Aurand, T., DeMoranville, C., Fredericks, E., & **Smith, T.** (2005). From mass customization to customization: An opportunity for entrepreneurial differentiation. *Journal of Small Business Strategy*, 15(1), 49-60.
- Smith, T. J.** (2005). Ethnic and gender differences in community service participation among working adults. *Journal of Extension*, 43(2), Article 2RIB1.
- Bursuck, W. D., **Smith, T.**, Munk, D., Damer, M., Mehlig, L. & Perry, J. (2004). Evaluating the impact of a prevention-based model of reading on children who are at risk. *Remedial and Special Education*, 5(5), 303-313.
- Armstrong, P. I., **Smith, T. J.**, Donnay, D. A. C., & Rounds, J. (2004). The Strong ring: A basic interest model of occupational structure. *Journal of Counseling Psychology*, 51(3), 299-313.
- Derby, D., & **Smith, T. J.** (2004). The effects of a retention course on a community college's retention. *Community College Journal of Research and Practice*, 28(9), 763-773.
- Smith, T. J.** & Campbell, C. (2003). Skills-based occupational representations: Implications for career counseling. *Journal of College Counseling*, 6, 134-143.
- Smith, M C., Plant, M., Carney, R. N., Arnold, C. S., Jackson, A., Johnson, L. S., Lange, H., Mathis, F. S., & **Smith, T. J.** (2003). Further productivity of educational psychologists in educational psychology journals, 1997-2001. *Contemporary Educational Psychology*, 28, 422-430.
- Smith, T. J.** (2001). Constructing ultrametric and additive trees based upon the L_1 norm. *Journal of Classification*, 18(2), 185-207.
- Smith, T. J.** (2000). L_1 optimization under linear inequality constraints. *Journal of Classification*, 17, 225-242.

Smith, T. J. (1998). A comparison of three additive tree algorithms that rely on a least-squares loss criterion. *British Journal of Mathematical and Statistical Psychology*, 51, 269-288.

Other publications

Hsu, P.-S., Van Dyke M., Lee, E. M., & **Smith, T. J.** (2017, June). The effect of varied gender groupings on science knowledge and argumentation skills among middle level students. In B. K. Smith, M. Borge, E. Mercier, & K. Y. Lim (Eds.), *Proceedings of the 12th International Conference on Computer Supported Collaborative Learning* (pp. 781-782). Philadelphia, PA: International Society of the Learning Sciences.

Hsu, P.-S., Van Dyke, M., Lee, E. M., & **Smith, T. J.** (2016). A cross-cultural study of the effect of a graph-oriented computer-assisted project-based learning environment on students' argumentation skill. In C.-K. Looi, J. Polman, U. Cress, & P. Reimann (Eds.), *Proceedings of the 12th International Conference of the Learning Sciences* (pp. 1183-1184). Singapore: International Society of the Learning Sciences.

Hsu, P.-S., Van Dyke, M., Chen, Y., & **Smith, T. J.** (2015, June). A study of developing students' scientific argumentation skills in a computer-assisted project-based learning environment. In O. Lindwall, P. Hakkinen, T. Koschmann, P. Tchounikine, & S. Ludvigsen (Eds.), *Proceedings of the 11th International Conference on Computer Supported Collaborative Learning* (pp. 677-678). Gothenburg, Sweden: International Society of the Learning Sciences.

Smith, T. J., & Campbell, C. (2005). Using the O*NET Work Importance Profiler as a tool for exploring occupational values. In M. Pope & C. W. Minor (Eds.), *Experiential Activities for Teaching Career Courses and Leading Career Groups, Vol. II.*, Tulsa: OK: National Career Development Association.

Campbell, C., **Smith, T. J.** (2005). Using the O*NET to facilitate career decision-making: Exploring occupational requirements and characteristics. In M. Pope & C. W. Minor (Eds.), *Experiential Activities for Teaching Career Courses and Leading Career Groups, Vol. II.*, Tulsa: OK: National Career Development Association

Rounds, J., **Smith, T. J.,** Armstrong, P. I., & Donnay, D. A. C. (2000, August). *Strong occupational classification system*. Report prepared for Consulting Psychologist Press, Inc.

Rounds, J., Armstrong, P. I., **Smith, T. J.,** & Donnay, D. A. C. (2000). *The Strong ring: A spatial model of the Strong Interest Inventory Occupations*. Report prepared for Consulting Psychologist Press, Inc.

Rounds, J., Armstrong, P. I., **Smith, T. J.**, & Donnay, D. A. C. (2000). *Comparison of current Strong Interest Inventory occupation scales to ACT and SOC classification systems: Recommendations for occupational sampling*. Report prepared for Consulting Psychologist Press, Inc.

Rounds, J., Mazzeo, S., **Smith, T.**, Hubert, L., Lewis, P., & Rivkin, D. (1999). *ONET Computerized Interest Profiler: reliability, validity, and comparability*. (U.S. Department of Labor Rep. SARDC 99-5): U.S. Department of Labor.

Rounds, J., **Smith, T.**, Hubert, L., Lewis, P. & Rivkin, D. (1998). *Development of occupational interest profiles (OIPs) for the ONET*. (U.S. Department of Labor Rep. SARDC 97-2): U.S. Department of Labor.

Presentations (refereed)

Yun, H., Xie, Y., Smith, T. J., & Ketsman, O. (2019, April). *Understanding high school students' one-to-one computing technology acceptance: Using the modified unified theory of acceptance and use of technology model*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

Rose, A. D., Smith, T. J., Ross-Gordon, J. M., Smith, M C., Zaretsky, J., Lopes, T., Grotlueschen, A., Fleige, M. (2019, April). *Predictors of civic engagement in the U.S. and German: A cross-national comparison*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

Smith, T. J., Walker, D. A., Chen, H-T., & Hong, Z-R. (2019, April). *Students' sense of school belonging as a predictor of science proficiency and attitude toward science: A comparison between Taiwan and the United States*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

Smith, T. J., McKenna, C. M., & Walker, D. A. (2019, April). *Homework characteristics as predictors of advanced math achievement and attitude among U.S. 12th grade students*. Paper presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

Smith, T.J., Walker, D. A., & Chen, H-T. (2019, January). *The relationship of sense of school belonging to math attitude among high school students enrolled in advanced math courses*. Paper presented at the Lisbon Economics and Statistics of Education (LESE) conference, Lisbon, Portugal.

- Smith, T. J. (2018, November). *Cultivating and sustaining student interest in science: A cross-cultural perspective*. Keynote address presented at the International Conference on Education (ICE), Tainan, Taiwan.
- Yun, H., Xie, Y., & Smith, T. (2018, October). *Secondary school students' computer self-efficacy, computer anxiety, and attitude toward 1:1 computing technology: an extension of the UTAUT model*. Paper presented at the Association for Educational Communications and Technology (AECT) International Convention, Kansas City, Missouri.
- Yun, H., Xie, Y., & Smith, T. (2018, October). *Understanding high school student perceptions on 1:1 computing technology acceptance: An application of the UTAUT model*. Paper presented at the Association for Educational Communications and Technology (AECT) International Convention, Kansas City, Missouri.
- Chen, Y., Mayall, H. J., York, C., & Smith, T. J. (2018, April). *A Mobile-Assisted Funds of Knowledge-Featured Writing Instructional Model for iPanchitos via Google Apps for Education*. Paper presented at the Annual Meeting of the American Educational Research Association, American Educational Research Association, New York, NY.
- Smith, M. C., Smith, T. J., & Walker, D. A. (2018, April). *Adult skill practices: An international study of individual and contextual predictors of skill proficiency*. Roundtable presentation at the Annual Meeting of the American Educational Research Association, American Educational Research Association, New York, NY.
- Chen, Y., Mayall, H. J., York, C., & Smith, T. J. (2018, April). *Google Earth virtual reality: Assisted expository writing for iPanchitos from the Funds of Knowledge perspective*. Paper presented at the Annual Meeting of the American Educational Research Association, American Educational Research Association, New York, NY.
- Smith, T. J., Walker, D. A., & McKenna, C. M. (2018, April). *Logistic regression under sparse data conditions*. Paper presented at the Annual Meeting of the American Educational Research Association, American Educational Research Association, New York, NY.
- Walker, D. A., Smith, T. J., & Smith, M. C. (2018, April). *The relationship between literacy skills and immigrant characteristic variables: A U.S. examination*. Roundtable presentation at the Annual Meeting of the American Educational Research Association, American Educational Research Association, New York, NY.

- Smith, T. J., Walker, D. A., & Chen, H-T. (2018, October). *Students' sense of school belonging as a predictor of science proficiency and attitude toward science: A comparison between Taiwan and the U.S.* Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Cincinnati, OH.
- Smith, T. J., & Walker, D. A. (2017, October). *Student Perceptions of School Climate and Student Attitude Towards Science: A Cross-Cultural Examination.* Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Walker, D. A., Reeves, T., & 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.* Paper presented at Annual Meeting of the American Educational Research Association, San Antonio, TX.
- Chen, Y., Mayall, H. J., York, C. S., Xie, Y., & Smith, T. J. (2017, April). *Cloud-based narrative writing practice for young English learners from a Funds of Knowledge Approach.* Paper presented at Annual Meeting of the American Educational Research Association, San Antonio, TX.
- Smith, T. J., Walker, D. A., and McKenna, C. M. (2017, April). *An examination of link function choice in ordinal regression models.* Paper presented at Annual Meeting of the American Educational Research Association, San Antonio, TX.
- Smith, T. J., & Walker, D. A. (2017, October). *Student Perceptions of School Climate and Student Attitude Towards Science: A Cross-Cultural Examination.* Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Smith, T. J., & Walker, D. A. (2017, October). *Logistic regression under sparse data conditions.* Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Walker, D. A., Smith, T. J., Smith, M C. (2017, October). *The predictive relationship between literacy skills and background variables: A PIAAC study of U.S. immigrant participants.* Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Hsu, P.-S., Van Dyke M., Lee. E. M., & **Smith, T. J.** (2017, June). *The effect of varied gender groupings on science knowledge and argumentation skills among middle level students.* Paper presented at the 12th International Conference on Computer Supported Collaborative Learning, Philadelphia, PA.
- Martin, A., Reeves, T. D., Smith, T. J., & Walker, D. A. (2016, November). *Computer proficiency for online learning: Factorial invariance of scores among teachers.*

- Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Smith, T. J., Walker, D. A., & McKenna, C. M. (2016, November). *An exploration of link functions used in ordinal regression*. Paper presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Walker, D. A., Reeves, T. D., Smith, T. J., Sanga, I. J., & Smith, T. J. (2016, November). *An evaluation of an online teaching and course development training program in Saudi Arabia*. Poster presented at the Annual Meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Chiang, J. L., Luo, W., Hung, W.-C., Smith, T. J. (2016, November). *The effects of utilizing 3D web-based interactive earth surface modeling for science learning in higher education*. Poster presented at the Asia-Pacific Educational Research Association, Kaohsiung, Taiwan.
- Chiang, J. L., Luo, W., Hung, W.-C., Smith, T. J. (2016, November). *The effects of utilizing simulation to promote higher order thinking skills in a STEM classroom*. Paper presented at the Annual Meeting of the Association for Educational Communications and Technology (AECT), Las Vegas, NV.
- Hsu, P.-S., Van Dyke, M., *Zhou, X., *Ginting S. R., & Smith, T. J. (2016, October). *A cross-cultural study of the effect of a graph-oriented computer-assisted project-based learning environment on students' argumentation skill*. Paper presented at of the annual meeting of Association for Educational Communications and Technology, Las Vegas, Nevada.
- 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*. Poster presented at the Illinois Education Research Council, Bloomington, IL.
- Hsu, P.-S., Van Dyke, M., Lee, E. M., & Smith, T. J. (2016, June). *A cross-cultural study of the effect of a graph-oriented computer-assisted project-based learning environment on students' argumentation skill*. Paper presented at of the 12th International Conference of the Learning Sciences. Singapore: International Society of the Learning Sciences. (international, refereed)
- Smith, T. J., Walker, D. A., and McKenna, C. M. (2016, November). *A coefficient of discrimination for use in multinomial and logistic regression models*. Paper presented at Annual Meeting of the American Educational Research Association, Washington, DC.

- Smith, T. J., Rose, A. D., Ross-Gordon, J., & Smith, M. C. (2015, April). *Readiness to learn: An international study of individual and contextual predictors*. Paper presented at Annual Meeting of the American Educational Research Association, Washington, DC.
- Smith, T. J., Walker, D. A., and McKenna, C. M. (2015, November). *A coefficient of discrimination for use in multinomial and logistic regression models*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Reeves, T. R., Walker, D. A., Smith, T. J., Sanga, I. (2015, Oct.). Tracking the growth of higher educators during an online teaching and course development training program. Poster presented at the Illinois Education Research Council Symposium, Lisle, IL.
- Hsu, P.-S., Van Dyke, M., Chen, Y., & Smith, T. J. (2015, June). A study of developing students' scientific argumentation skills in a computer-assisted project-based learning environment. Paper presented at 11th International Conference on Computer Supported Collaborative Learning, Gothenburg, Sweden (*in absentia*).
- Ross-Gordon, J., Rose, A. D., Smith, T. J., & Smith, M. C. (2015, April). *Readiness to learn as a predictor of participation in adult education and training activities*. Paper presented at Annual Meeting of the American Educational Research Association, Chicago, IL.
- Smith, T. J., Smith, M. C., Rose, A. D., & Ross-Gordon, J. (2015, April). *An assessment of the factor structure and factorial invariance of scores from the Readiness to Learn scale*. Paper presented at Annual Meeting of the American Educational Research Association, Chicago, IL.
- Smith, T. J., Smith, M. C., Rose, A. D., & Ross, J. (2014, December). *Adults' Readiness to Learn as a Predictor of Literacy Skills*. Paper presented at Taking the next step with PIAAC: A research-to-action conference, Arlington, VA.
- Hsu, P.-S., Van Dyke, M., Chen, Y., & Smith, T. J. (2014, November). *A study of developing middle school students' science knowledge and scientific argumentation skills in a graph-based computer-assisted project-based learning environment (in absentia)*. Paper presented at Association for Educational Communications and Technology, Jacksonville, FL.
- Smith, T. J., Smith, M. C., Rose, A., & Ross-Gordon, J. (2014, November). *An assessment of factor structure and factorial invariance of scores from the Readiness to Learn scale*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Evanston, IL.

- Muehlsler, H. E., Walker, D. A., & Smith, T. J. (2014, November). *A note on the use of Cohen's d and common language effect*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, Evanston, IL.
- Hsu, P.-S., Van Dyke, M., Chen, Y., & Smith, T. J. (November, 2014). *A study of developing middle school students' science knowledge and scientific argumentation skills in a graph-based computer-assisted project-based learning environment*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Jacksonville, FL. (in absentia)
- Smith, T. J., Pasero, S., & McKenna, C. M. (2014, April). *Gender Effects in Student Attitude Toward Science Among Fourth- and Eighth-Grade Students in the United States*. Paper presented at Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- Kantner, J., McKenna, C. M., & Smith, T. J. (2013, November). *Selected predictors of success in community college developmental mathematics courses*. Paper presented at Midwestern Educational Research Association, Evanston, IL.
- Muehlsler, H., Smith, T. J., & Walker, D. A. (2013, November). *A conceptual framework for assessment and factors related to K-12 student achievement*. Paper presented at Midwestern Educational Research Association, Evanston, IL.
- Smith, T. J., Pasero, S., & McKenna, C. M. (2013, November). *Gender differences in student attitude towards science*. Paper presented at Midwestern Educational Research Association, Evanston, IL.
- King, C., Buffington, L., Smith, T. J., Grandin, T. (2013). *Use of a pressure wrap (Thundershirt) as a treatment for canine anxiety*. Poster presented at the Annual Meeting of the Animal Behavior Society, Boulder, CO.
- Smith, T.J., Hung, W-C., & McKenna, C. M. (2013). *Student perceptions of classroom mathematics activities: A cross-cultural examination*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Smith, T. J. & McKenna, C. M. (2012, November). *Student Perceptions of Classroom Mathematics Activities: A Cross-Cultural Examination*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Evanston, IL.
- Smith, T. J. & McKenna, C. M. (April 2012). *An examination of ordinal regression goodness-of-fit indices under varied sample conditions and link functions*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, B.C., Canada.

- Smith, M C., Hung, W. C., & Smith, T. J. (April 2012). *Use of a scenario-based tutorial to facilitate student proficiency in social science research methodology and attitude towards research*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, B.C., Canada.
- McKenna, C. M., & Smith, T. J. (April 2012). *Relationships among attitudes, homework, and achievement among eighth grade students in the U.S.* Paper presented at the Annual Meeting of the American Educational Research Association, Vancouver, B.C., Canada.
- Hertz, J. E., and Smith, T. J. (2011, November). *Psychometric analysis of the perceived enactment of autonomy (PEA) scale*. Poster presented at the Gerontological Society of North America 64th Annual Scientific Meeting, Boston, MA.
- Smith, T. J. & McKenna, C. M. (2011, October). *An examination of goodness-of-fit indices used in ordinal regression*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, St. Louis, MO.
- Derby, D. C., & Smith, T. J. (2011, October). *Behavioral consequences of alcohol: An investigation of factorial invariance across gender*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, St. Louis, MO.
- Smith, T. J., & McKenna, C. M. (2011, April). *A weighted test of internal symmetry*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Smith, M C., & Smith, T. (2011, April). *Decline in college graduates' literacy skills? A search for explanations*. Paper presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Smith, T. J. & McKenna, C. M. (2010, October). *An examination of pseudo R-square statistics under varying sample size conditions*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Derby, D. C., & Smith, T. J. (2010, May). *The structure of behavioral consequences of drinking among 4-year college students*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- Smith, T. S., & Smith, M C. (2010, May). *The relationship between literacy activities and civic engagement among U.S. adults*. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- Smith, T. J., & McKenna, N. M. (2010, May). *The association of group work with math proficiency and attitude among eighth-grade students in the U.S.* Paper presented

- at the Annual Meeting of the American Educational Research Association, Denver, CO.
- Smith, T. J., & McKenna, C. M. (2009, October). *The effects of cooperative learning on student attitudes towards mathematics*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, St. Louis, MO.
- Derby, D. C., & Smith, T. J. (2009, October). *Behavioral consequences of drinking across College Student Populations: An examination of the two-factor model*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, St. Louis, MO.
- Hung, W. C., Smith, T. J., Smith, M C., & Adulseranee, R. (2009, October). *Visual dialogue metaphor of a scenario-based simulation in research design*. Paper presented at the annual meeting of the International Visual Literacy Association, Chicago, IL.
- Smith, T. J. (2009, April). *The relationship of comorbid AD/HD and Learning Disabilities to social skills outcomes in children*. Poster presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Smith, M. C., & Smith, T.J. (2009, April). *Adults' uses of computer technology: Associations with literacy outcomes*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Smith, T. J., & Smith, M.C. (2009, April). *Workplace skills and training among nonnative U.S. adults*. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Smith, T. J., & Smith, M.C. (2009, April). *The literacy skills of first-generation college graduates*. Poster presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Smith, T. J., & McKenna, C. M. (2008, October). *A weighted test of marginal homogeneity*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J. (2008, October). *The relationship of comorbid AD/HD and Learning Disabilities to social skills outcomes in children*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J. & Zebehazy, K. (2008, July). *A comparative examination of the socio-behavioral characteristics and skills of youth with visual impairment*. Poster presented at the annual meeting of the Association for Education and Rehabilitation of the Blind and Visually Impaired, Chicago, IL.

- Smith, T. J., & Campbell (2007, October). *The relationship between occupational values and interests*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, St. Louis, MO.
- Smith, T. J. (2007, April). *Children with parent-reported AD/HD: Demographic characteristics and associations with academic and behavioral outcomes*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Smith, M C., & Smith, T. J. (2007, April). *Low-education adults' participation in informal learning activities: Relationships with selected demographic characteristics*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Henry, B., & Smith, T. J. (2007, April). *Evaluating a Nutrition Counseling Standardized Patient Exercise* Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Smith, T. J. (2006, October). *A comparison of proximity metrics when used for developing comparable samples*. Paper presented at the Annual Meeting of the Midwest Educational Research Association, Columbus, OH.
- Smith, M. C., & Smith, T. J. (2006, April). *Demographic academic, and behavioral characteristics of latchkey children*. Poster presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Smith, T. J., & Adams, G. (2005, October). *Effect of comorbid AD/HD and learning disabilities on parent-reported behavioral and academic outcomes of children*. Paper presented at the Annual Meeting of the Midwest Educational Research Association, Columbus, OH.
- Smith, T. J., & Adams, G. (2005, April). *Effects of AD/HD, gender, and ethnicity on academic and social/behavioral outcomes of children*. Poster presented at the Annual Meeting of the American Educational Research Association, Montreal, Canada.
- Chandler, L., Munk, D., Cancio, E., & Smith, T. (2005, April). *Functional behavior assessment practices in Illinois Schools*. Paper presented at the annual conference of the Behavior Analysis Society of Illinois, Lisle, IL.
- Hung, W. C., Smith, M C., & Smith, T. J. (2004, October). *REsearchMentor: A learner-centered design approach*. Paper presented at the Annual Meeting of the Association of Educational and Technology, Chicago, IL.

- Smith, T. J. (2004, October). *Exploratory structural equation modeling*. Symposium presentation at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J. (2004, October). *Community service participation: A logit analysis*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J. (2004, October). *Metric recovery under extreme data conditions: A comparison of ultrametric and additive tree strategies that minimize a least-squares loss criterion*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J., & Campbell, C. (2004, April). *The structure of occupational values*. Poster presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- Smith, T. J., & Campbell, C. (2003, October). *Validation and structural analysis of the Student Perception of Course Experience instrument*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Campbell, C., & Smith, T. J. (2003, October). *The effect of course specific factors on college students' ratings of instructors*. Paper presented at the Annual Meeting of the Midwestern Educational Research Association, Columbus, OH.
- Smith, T. J. (2003, July). *Hierarchical clustering procedures that minimize a hybrid L1/L2 loss function*. Paper presented at the International Meeting of the Psychometric Society (IMPS), Sardinia, Italy.
- Campbell, C., & Smith, T. J. (2003, April). *Student perception of course experience: Dimensional analyses*. Paper presented at the meeting of the American Educational Research Association (AERA), Chicago, IL.
- Holt, J. & Smith, T. J. (2002, October). *What to do and what not to do when teaching statistics*. Presented at the meeting of the Midwestern Educational Research Association (MWER), Columbus, OH.
- Smith, T. J. (2002, October). *Quantitative research in adult education: New developments*. Presented at the 2002 Midwest Research-to-Practice Conference, DeKalb, IL.
- Bursuck, W.D., Damer, M., & Smith, T. (2002, September). *Prevention of reading problems through a multi-tiered model of instruction based on behavior analytic principles of effective instruction*. Presented at The Ohio State University's Third Focus on Behavior Analysis in Education Conference, Columbus, OH.

- Campbell, C., & Smith, T. (2002, July). *Integrating portfolio assessment into an educational research degree program: Initial stages*. Presented at Putting Students First: Assessing Mastery of Student Learning conference, Normal, IL.
- Smith, T. J. (2002, April). *Hierarchical and spatial models of occupational skill*. Paper presented at the meeting of the American Educational Research Association (AERA), New Orleans, LA.
- Bursuck, W. D., Munk, D., & Smith, T. (2001, October). *Inclusion and early literacy: One size does not fit all*. Paper presented at the International Conference on Learning Disabilities, Charlotte, NC.
- Smith, T. J. (2001, July). *Tree estimation based on an L_1 loss criterion*. Paper presented at the meeting of the Psychometric Society, Osaka, Japan.
- Smith, T. J. (2001, March). *A cluster-based classification of the Strong Interest Inventory occupations*. Paper presented at the meeting of the American Educational Research Association (AERA), Seattle, WA.
- Smith, T. J., Rounds, J., & Armstrong, P. I. (2000, October). *The structure of occupations: Data considerations*. Paper presented at the meeting of the Midwestern Educational Research Association (MWERA), Chicago, IL.
- Smith, T. J. (1999, July). *Ultrametric clustering procedures based on an L_1 loss criterion*. Paper presented at the meeting of the Classification Society of North America, Pittsburgh, PA.
- Smith, T. J. (1998, June). *Holland classification of occupational units*. Paper presented at the joint meeting of the Classification and Psychometric Societies, Champaign, IL.
- Smith, T. J. (1997, June). *A comparison of three additive tree algorithms that rely on a least-squares loss criterion*. Paper presented at the meeting of the Psychometric Society, Gatlinburg, TN.

Presentations (invited)

- King, C., Gorman, R., Moscatel, S., Gallegos, D., Raison, M., Smith, T. J., Rossetti, J., Smyth, S., & Watson, J. (2018, October). *A mindfulness activity increases positivity and decreases stress in the nursing workplace*. Poster presented at the ECHCS VA Research Day, Aurora, CO.
- Smith, M. C., Rose, A., Ross-Gordon, J., & Smith, T. J. (2014, November). *Adults' Readiness to Learn as a Predictor of Literacy Skills*. Paper presented at Taking the next step with PIAAC: A research-to-action conference. Arlington, VA.

- Hung, W. C., & Smith, T. J. (2010, May). *Engaging learners in the content areas through cartooning*. LearnIT conference, DeKalb, IL.
- Miller-Young, R., & Smith, T. J. (2006, April) *Norm development of the IGDIS instrument: Initial findings*. IPSA conference, St. Charles, IL.
- Smith, M C. & Smith, T. J. (2003, April). *ResearchMentor: An intelligent tutorial for research design in education and the social sciences*. Presented at the 2003 David W. Raymond Grant for the Use of Technology in Teaching reception, DeKalb, IL.
- Bursuck, W.D., Damer, M., Smith, T., Parker, T., Larson, P. & Robertson, J. (2002, June). *Project PRIDE: Partnering with the Rockford schools to prevent reading problems*. Presented at the School-University Partnership's 3rd Annual Linking Conference, Rockford, IL.
- Bursuck, W.D., Munk, D., Damer, M., & Smith, T. (2002, April). *Putting early literacy research into practice in inclusive settings*. Presented at Council for Exceptional Children Annual Convention and Expo, New York, NY.
- Bursuck, W.D., Damer, M., & Smith, T. (2001, November). *Results of Project PRIDE intervention presented to staff involved in the Project PRIDE first grade intervention*. Lewis Lemon School; Rockford Public Schools; Rockford, Illinois.