

## CURRENT POSITION

**2009 - present** Associate Professor, The University of Akron  
LeBron James Family Foundation College of Education  
Educational Foundations & Leadership  
Assessment & Evaluation Certificate Program and Master's Degree Program

## EDUCATION

**2009 Ph.D.** The University of Toledo, Educational Research and Measurement  
**Minor:** Educational Psychology

**2006 M.E.** The University of Toledo, Educational Psychology

**2004 B.S.** Baldwin-Wallace College, Psychology, Summa Cum Laude  
**Minor:** English

## TEACHING EXPERIENCE

### The University of Akron, Program Development

- Co-developed fully online certificate and master's degree programs in Assessment, Evaluation, and Data Literacy, College of Education (Fall 2010)

### The University of Akron - Graduate Level Courses

Master Level Courses	Delivery Mode	Semester(s) Taught
Introduction to Classroom Assessment <sup>1</sup>	On-site, Online	FA 2009 - present
Introduction to Educational Evaluation <sup>1</sup>	Online	FA 2011 - present
Introduction to Statistics in Education and Human Services	On-site	SP '14, '15
Techniques of Research	On-site, hybrid, online	SP '10 – SP '11

<sup>1</sup>*Quality Matters in Online Education recognized.*

Doctoral Level Courses	Delivery Mode	Semester(s) Taught
Educational Statistics	On-site	FA '12, '13, '15
Qualitative Methods II	On-site	SP '15
Advanced Statistics	On-site	SP '12, '16
Seminar in Mixed Methods Research	On-site	SU '10, '16

### The University of Toledo - Master Level Course

Course Name	Delivery Mode	Semester(s) Taught
Quantitative Methods I	On-site, Online	SU 2007 - SU 2009

### The University of Toledo - Undergraduate Level Course

Course Name	Delivery Mode	Semester(s) Taught
Early Child Development for Early Childhood Educators	On-site	FA 2006 – SP 2007

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<sup>1</sup> Maiden name is Kelly.

## PUBLICATIONS

### Peer Reviewed Publications and Manuscripts Accepted for Publication

**Koskey, K. L. K.**, Mudrey-Camino, R. R., & Ahmed, W. Development of the Teachers' Emotions Questionnaire using Rasch rating scale analysis. *Journal of Applied Measurement*. Manuscript accepted for publication (with minor revisions).

**Koskey, K. L. K.**, & Kushner Benson, S. N. A review of literature and a hierarchical model for scaffolding asynchronous student-student interaction. Manuscript accepted for publication to appear in the *Handbook of Online Learning*.

**Koskey, K. L. K.**, Sondergeld, T. A., Stewart, V. C., & Pugh, K. J. (2016). Applying the mixed methods Instrument Development and Construct Validation Process: The Transformative Experience Questionnaire. *Journal of Mixed Methods Research*. doi:10.1177/1558689816633310

**Koskey, K. L. K.** (2016). Using the cognitive pre-testing method to gain insight into participants' experiences: An Illustration and methodological reflection. *International Journal of Qualitative Methods*, 15(1), 1-13. doi:10.1177/1609406915624577

Sondergeld, T. A., **Koskey, K. L. K.**, Stone, G. E., & Peters-Burton, E. (2016). Data-driven STEM assessment. In C. Johnson, E. E. Peters-Burton, & T. J. Moore (Eds.), *STEM roadmap: A framework for integrated STEM education*, Chapter 8 (pp. 165-188). Routledge.

**Koskey, K. L. K.**, Cain, B., Alvim, H. G., Sondergeld, T. A., Slager, E., & Kennedy-Phillips, L. C. (2015). *A mixed-methods investigation of factors and scenarios influencing college students' decision to complete surveys at five mid-western universities*. *Mid-Western Educational Researcher*, 27(1), 3-30. Retrieved from <http://www.mwera.org/MWER/volumes/v27/issue1/v27n1-Koskey-et-al-FEATURE-ARTICLES.pdf>

**Koskey, K. L. K.**, & Stewart, V. C. (2014). A concurrent mixed methods approach to examining the quantitative and qualitative meaningfulness of absolute magnitude estimation scales in survey research. *Journal of Mixed Methods Research*, 8(2), 180-202. doi:10.1177/1558689813496905

Pugh, K. J., **Koskey, K. L. K.**, & Linnenbrink-Garcia, L. (2013). High school biology students' transfer and conceptual understanding of the concept of natural selection over time: A mixed methods approach. *Journal of Biological Education*, 1-11.

**Koskey, K. L. K.**, Sondergeld, T. A., Beltyukova, S. A., & Fox, C. M. (2013). An experimental study using Rasch analysis to compare absolute magnitude estimation and categorical rating scaling as applied in survey research. *Journal of Applied Measurement*, 14(3), 262-281.

**Koskey, K. L. K.**, & Shermis, M. D. (2013). Norming and scaling for automated essay scoring. In Shermis, M. D., & Burstein, J. (Eds.), *Automated essay scoring: A cross-disciplinary perspective* (2nd ed.), Chapter 12 (pp. 199-220). Routledge Academic.

Sondergeld, T. A., & **Koskey, K. L. K.** (2013). Numbers are important in evaluation, but they don't always tell the full story. In G. Mazurkiewicz's *Przywództwo i zmiana w edukacji: Ewaluacja jako mechanizm doskonalenia* (Leadership and change in education: Evaluation – Tool for improvement), pp. 293-300.

Linnenbrink-Garcia, L., Pugh, K. J., **Koskey, K. L. K.**, & Stewart, V. C. (2012). Developing conceptual understanding about natural selection: The role of interest, efficacy, and prior knowledge. *The Journal of Experimental Education*, 80, 45-68.

Sondergeld, T. A., & **Koskey, K. L. K.** (2011). Evaluating the impact of an urban comprehensive school

reform: An illustration of the need for mixed methods. *Studies in Educational Evaluation*, 37(2-3), 94-107. doi:10.1016/j.stueduc.2011.08.001

Stone, G. E., **Koskey, K. L. K.**, & Sondergeld, T. A. (2011). Comparing construct definition in the Angoff and objective standard setting models: Playing in a house of cards without a full deck. *Journal of Educational and Psychological Measurement*, 71(6), 942-962.

Linnenbrink-Garcia, L., Rogat, T. K., & **Koskey, K. L. K.** (2011). Affect and engagement during small group instruction. *Contemporary Educational Psychology*, 36(1), 13-24.

**Koskey, K. L. K.**, Karabenick, S. A., Woolley, M. E., Bonney, C. R., & Ammon, B. V. (2010). Cognitive validity of students' self-reports of classroom mastery goal structure: What they are thinking and why it matters. *Contemporary Educational Psychology*, 35(4), 254-263.

Pugh, K. J., Linnenbrink-Garcia, E. A., **Koskey, K. L. K.**, Stewart, V. C., & Manzey, C. (2010) Teaching for transformative experiences and conceptual change: A case study and evaluation of a high school biology teacher's experience. *Cognition & Instruction*, 28(3), 273-316.

Pugh, K. J., Linnenbrink-Garcia, E. A., **Koskey, K. L. K.**, Stewart, V. C., & Manzey, C. (2010). Motivation, learning and transformative experience: A study of deep engagement in science. *Science Education*, 94, 1-28.

Karabenick, S. A., Woolley, M. E., Friedel, J. M., Ammon, B. V., Blazeovski, J., Bonney, C. R., De Groot, E. D., Gilbert, M. C., Musu, L., Kempler, T. M., & **Kelly, K. L.** (2007). Cognitive processing of self-report items in educational research: Do they think what we mean? *Educational Psychologist*, 42, 139-151.

## Non-Peer Reviewed Publications

**Koskey, K. L. K.** (2012, January). A request from the historian: Help update the archival records of the Score. *The Score: American Psychological Association, Division 5 – Evaluation, Measurement, and Statistics*, XXXIV(1), p. 19.

## Studies in Progress/Manuscripts in Preparation

**Koskey, K. L. K.**, Ahmed, W., Makki, N., Garagolo, N., & Visco, D. *Applying the Rasch model and Many Facet Rasch Model to evaluate the psychometric properties of the modified Engineering Concept Assessment for Eighth Grade Students.*

**Koskey, K. L. K.**, & Maguth, B. *A methodological illustration of the arts-based significant circle drawing technique to assess youth's sense of self: Research note.*

**Koskey, K. L. K.**, Ramlo, S., Schwam, S., Shoaff, E., Sondergeld, T. A., & Stewart, V. C. *Q-sort of middle school students' transformative experience in science with the concepts of properties of matter and genetics.*

## CONFERENCE PAPERS & PRESENTATIONS (All refereed and peer reviewed)

### National Conferences

*Under Review* **Koskey, K. L. K.**, Garafolo, N. G., Makki, N., Ahmed, W., Visco, D. P., & Samreddy, U. R. (2016). *Evaluating students' understanding of an ability to transfer engineering design concepts: Engineering concept assessment modified for the eighth-grade level.* Work in progress submitted to the Annual American Society for Engineering Education, Columbus, Ohio.

Maguth, B., & **Koskey, K. L. K.** (2016, November). *Using the significant circle in researching urban youth's sense of self in the social studies*. Paper presented at the Annual Conference of the College and University Faculty Assembly of The National Council for the Social Studies, Washington, DC.

**Koskey, K. L. K.**, & Maguth, B. (2016, January). *A methodological illustration of the significant circle drawing technique to assess urban youth's sense of "self."* Paper presented at the Ethnographic & Qualitative Research Conference, Las Vegas, NV.

Cain, B., Alvim, H. G., & **Koskey, K. L. K.** (2015). *Surveying advisees to improve advising services? See what students have to say first!* Paper presented at the annual meeting of the National Academic Advising Association (NACADA), Las Vegas, NV.

**Koskey, K. L. K.**, & Ward, C. (2015, April). *An illustrative example of using designed interaction to scaffold student-student interaction in an online graduate course*. Paper accepted for roundtable presentation at the annual meeting of the American Educational Research Association, Chicago, IL

Cain, B., **Koskey, K. L. K.**, Alvim, H. G., Sondergeld, T. A., Slager, E., & Kennedy-Phillips, L. C. (2014). *Factors contributing to college students' decision to complete self-report surveys at five universities*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

**Koskey, K. L. K.**, & Mudrey-Camino, R. (2014) *Rasch derived Teachers' Emotions Questionnaire*. Paper presented at the annual meeting of the American Educational Research Association, Rasch Sig, Philadelphia, PA.

Stone, G. E., **Koskey, K. L. K.**, Sondergeld, T. A., & Liu, M. Y. (2013, April). *Measuring student growth through Rasch vertical equating: Learning within and across grades*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

**Koskey, K. L. K.**, Stewart, V. C., Benson, K., & Pontau, J. (2011, April). *A collective instrumental case study of the qualitative meaningfulness of absolute magnitude estimation scales in survey research*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, Louisiana.

Sondergeld, T. A., & **Koskey, K. L. K.** (2011, April). *Evaluating the impact of a comprehensive school reform in an urban junior high school: The need for mixed methods*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, Louisiana.

**Koskey, K. L. K.**, Sondergeld, T. A., Beltyukova, S. A., & Fox, C. M. (2008, March). *Is absolute magnitude estimation scaling a viable alternative to categorical rating scaling in social sciences: An experimental study*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

**Koskey, K. L. K.**, Stewart, V. C., & Pugh, K. J. (2008, March). *The investigation of a measure of transformative experience: Assessing in-class and out-of-class engagement*. Paper presented at the annual meeting of the American Educational Research Association New York, NY.

Pugh, K., Linnenbrink-Garcia, E. A., **Kelly, K. L.**, Stewart, V. C., & Manzey, C. (2007, April). *Learning to teach for conceptual change and transformative experiences*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Pugh, K., Manzey, C., Linnenbrink-Garcia, E. A., Stewart, V. C., & **Kelly, K. L.** (2007, April). *Transfer of the concept of natural selection*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Linnenbrink-Garcia, E. A., Pugh, K., **Kelly, K. L.**, Stewart, V. C., & Manzey, C. (2007, March). *Developing conceptual understanding and engagement in high school biology: A motivational perspective*. Paper presented as part of a symposium at the biennial meeting of the Society for Research in Child Development, Boston, MA.

**Kelly, K. L.**, Bonney, C. R., & Ammon, B. V. (2006, April). *Cognitive pretesting: A revealing look at students' understanding about classroom mastery goal structure*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Kumar, R., & **Kelly, K. L.** (2006, April). *Pre-service teachers' implicit theories of intelligence, attributions for success and failure, and achievement goals as predictors of their instructional practices*. Poster presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Pugh, K. J., Linnenbrink, E. A., **Kelly, K. L.**, Manzey, C., & Stewart, V. C. (2006, April). *Motivation, learning, and transformative experience: A study of deep engagement in science*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

### International Conferences

Maguth, B., **Koskey, K. L. K.**, & Kushner Benson, S. (2016, April). *I PROMISE Mentorship Program*. Paper presented at the Annual International Conference in Auburn, Alabama.

Sondergeld, T. A., **Koskey, K. L. K.**, Reinhart, R., & Stone, G. *Investigating the impact of assessment literacy professional development on primary and secondary teacher assessment confidence and teacher-created student tests of cognitive growth*. Paper submitted for consideration for presentation at the 7<sup>th</sup> International Conference of Education, Research and Innovation, Seville, Spain.

Stone, G. E., Moulton, M., & Sondergeld, T. A., **Koskey, K. L. K.** (2014). *Rulers on roller skates: The question of variable dimensionality and meaningful measurement on examinations*. Paper presented at the annual International Objective Measurement Workshop, Philadelphia, Pennsylvania.

Stone, G. E., Sondergeld, T. A., & **Koskey, K. L. K.** (2012, April). *To reset or not to reset, that is the question: Equating in objective standard-setting for judge mediated examinations*. Paper presented at the annual meeting of the International Objective Measurement Workshop, Vancouver, DC.

**Koskey, K. L. K.**, Sondergeld, T. A., Stewart, V. C., Vuchek, K., & Pugh, K. J. (2012, March). *Reliability and validity of scores on the Transformative Experience Questionnaire adapted for the topics of properties of matter and genetics*. Paper presented at the 2012 annual meeting of the National Association for Research in Science Teaching (NARST) International Conference, Indianapolis, IN.

Stone, G. E., Sondergeld, T. A., & **Koskey, K. L. K.** (2012, January). *Where we've failed: Why a lack of validity is hindering social science advancement*. Paper presented at the Hawaii International Conference on Education.

Kushner Benson, S. N., **Koskey, K. L. K.**, Liang, X., Milam, J., Spickard Prettyman, S., & Ward, C. L. (2011, January). *Creating an online community for doctoral students: Lessons learned from TPACK*. Paper presented at the Hawaii International Conference on Education.

Stone, G. E., **Koskey, K. L. K.**, & Sondergeld, T. A. (2011, January). *Construct validity and standard setting: Rethinking the paradigm*. Paper presented at the Hawaii International Conference on Education.

Linnenbrink-Garcia, L., Rogat, T. K., & **Koskey, K. L. K.** (2010, September). *The relation of affect of behavioral, cognitive, and social engagement: Student engagement during small group instruction*. Paper presented at the annual meeting of the International Conference on Motivation, Porto, Portugal.

**Koskey, K. L. K.,** Beltyukova, S. A., Fox, C. M., & Stone, G. E. (2010, April). *Examining quantitative and qualitative meaningfulness of data produced by absolute magnitude estimation scaling using the many-facet Rasch model and an instrumental case study*. Paper presented at the annual meeting of the International Objective Measurement Workshop, Boulder, CO.

Stone, G. E., **Koskey, K. L. K.,** & Sondergeld, T. A. (2010, April). *Construct definition and objective standard setting: Playing in a house of cards without a full deck*. Roundtable presentation at the annual meeting of the International Objective Measurement Workshop, Boulder, CO.

Manzey, C., Pugh, K. J., **Kelly, K. L.,** & Stewart, V. C. (2006, June). *Misconceptions in natural selection: Conceptual change through time in Biology classrooms*. Poster presented at the 7th International Conference of the Learning Sciences, Bloomington, IN.

Linnenbrink, E. A., **Kelly, K. L.,** & Kempler, T. M. (2005, August). *Affect during small group instruction: Implications for students' engagement and learning*. Paper presented at the 11th biennial conference of the European Association for Research on Learning and Instruction, Cyprus.

## INVITED PRESENTATIONS

**Koskey, K. L. K.,** & Kushner Benson, S. N. (2016, February). *Using designed interaction to scaffold student-student engagement in online courses*. Presentation followed by breakout session at the first annual 2016 New Explorations in Teaching with Technology (NEXT) conference. The University of Akron, Akron, Ohio.

**Koskey, K. L. K.,** Sondergeld, T. A., Stewart, V. C., Vuchek, K., & Pugh, K. J. (2013, April). *Scaffolding and assessing students' engagement with the science content extending from inside to outside the classroom*. Workshop presented at the 2013 annual meeting of the National Science Teachers Association, San Antonio, Texas.

- A related research proposal presented at NARST (2012) was entered in a competition. Our proposal was ranked one of the top four. As a result, we were invited to submit a proposal for a workshop to present at NSTA (2013) on behalf of NARST, which was accepted.

**Koskey, K. L. K.,** & Kushner Benson, S. (2011, October). *Reviewers' session*. Workshop on writing quality reviews of manuscripts and how to become a reviewer for the *Mid-Western Educational Researcher* presented at the annual conference of the Mid-Western Educational Research Association, St. Louis, MO.

## TECHNICAL REPORTS

**Koskey, K. L. K.** (2016, July). *Program Evaluation of the Partnership to Improve Physics Introduction Through Inquiry Teacher Professional Development*. Summative report written for a grant funded by the Ohio Board of Regents.

**Koskey, K. L. K.,** & Kushner Benson, S. N. (2016, May). *S-STEM Program Evaluation Report – Year 1*. Summative report written for a grant funded by the National Science Foundation.

**Koskey, K. L. K.,** Maguth, B., Kushner Benson, S. N., & Chatterjee, P. (2016, February). *LeBron James Family Foundation Wheels for Education and Akron I PROMISE Network Year 1 – Formative Evaluation Mid-Year Report*.

**Koskey, L. K.,** & Kushner Benson, S. N. (2015, May). *PenUltimate Reading and Writing Enhancement Program evaluation report*. Final report written for a grant funded by Flo K Gault and the Martha Holden Jennings Foundation.

**Koskey, K. L. K.** (2010, November). *Final report on the development of the Franco-American Teachers-in-Training Institute (FATITI) pre, post, follow-up surveys of U.S. students*. Summary report written for the FATITI grant funded by the U.S. Department of State, Franco-American Commission for Educational Exchange, & French Ministry of Education.

**Koskey, K. L. K., & Sondergeld, T. A.** (2010, October). *American Board for Certification of Teacher Excellence (ABCTE) PTK exam performance report: Forms F and G*. A psychometric report written for ABCTE.

**Koskey, K. L. K., & Sondergeld, T. A.** (2010, September). *American Board for Certification of Teacher Excellence (ABCTE) PTK exam performance report: Forms C, D, and E*. A psychometric report written for ABCTE.

**Koskey, K. L. K., & Sondergeld, T. A.** (2010, February). *American Board for Certification of Teacher Excellence (ABCTE) PTK exam performance report*. A psychometric report written for ABCTE.

**Koskey, K. L. K., & Sondergeld, T. A.** (2009, December). *American Board for Certification of Teacher Excellence (ABCTE) PTK exam performance report*. A psychometric report written for ABCTE.

**Koskey, K. L. K., & Sondergeld, T. A.** (2008, August). *American Board for Certification of Teacher Excellence (ABCTE) general science exam performance report*. A psychometric report written for ABCTE.

**Koskey, K. L. K., & Sondergeld, T. A.** (2008, October). *American Board for Certification of Teacher Excellence (ABCTE) biology exam performance report*. A psychometric report written for ABCTE.

**Kelly, K. L., Sondergeld, T. A., Fox, C. M., & Das, S.** (2007). *A survey of the cultural attitudes and climate survey at Mercy College*. A quantitative and qualitative report written for Mercy College.

**Kelly, K. L., Sondergeld, T. A., & Fox, C. M.** (2006). *AFRICA! at the Toledo Zoo: Visitors' experiences and satisfaction with the AFRICA! exhibit*. A quantitative report written for the Toledo Zoo.

Sondergeld, T. A., **Kelly, K. L., & Fox, C. M.** (2006). *Butterfly conservation initiative survey*. A quantitative report written for the Toledo Zoo.

## GRANTS

### Internal Grants

**2010 – 2011 Principal Investigator:** (1-year undertaking, \$1,908). *Applying the instrument development and construct validation framework to a measure of transformative experience in science and history*. Internal grant funded by the College of Education, The University of Akron.

**2010-2011 Co-Principal Investigator:** (1-year undertaking, \$2,000). *Development of the Teachers' Emotions Questionnaire using confirmatory factor analysis and Rasch rating scale analysis*. Internal grant funded by the College of Education, The University of Akron.

### External Grants

**Funded – Co-Principal Investigator** Maguth, B., **Koskey, K.**, Daviso, A., Foster, H., Weeks, H., Walker, R., Cleary, P., Lewis, P., & Liddle, D. (June, 2016) (\$99, 993). *Connecting at-risk middle and high school students with mentors*. Ohio Department of Education, Community Connector Initiative.

**Funded – Co-Principal Investigator** Visco, D. (PI), Ahmed, W., Garafolo, N. G., **Koskey, K.**, & Makki, N. (September 1, 2015) (3-year undertaking) (\$742,356). National Science Foundation – Innovative Technology Experiences for Students and Teachers (Research grant NSF 14-512). *Zippping towards STEM: Integrating engineering design into the middle school physical science curriculum*. The University of Akron. Main role related to research design, development of assessments, validity and reliability testing, and data analyses.

**Funded – Co-Principal Investigator** Maguth, B., Foster, H., **Koskey, K.**, Urycki, P., Weeks, H., Walker, R., Cleary, P., Lewis, P., & Liddle, D. (August, 2015) (\$75, 889). *Making at-risk high school students visible and college ready through Strong Community Mentorship Project*. Ohio Department of Education, Community Connector Initiative.

**Not Funded – Co Principal Investigator.** Reinhart R., Sondergeld, T. A., & **Koskey, K. L. K.** (2013) (\$390,000). Ohio Department of Education. Statewide assessment literacy and technical services, Bowling Green State University and The University of Akron (sub-contractor).

**Not Funded – Co Principal Investigator** Shermis, M. D. (PI), Mayfield, E., **Koskey, K. L. K.**, & Bursky, S. A. (2012) (\$361,223). Department of the Army. *Automated scoring for the Consequences Test*. (W5J9CQ-12-R-0002H), The University of Akron.

**Not Funded – Project Manager** Shermis, M. D. (PI). (2009). Institute of Education Science (2-year undertaking). *Automated scoring in a High-Stakes Testing Environment*, The University of Akron.

## FUNDED EVALUATIONS & CONSULTING

**January 2015 – Present – Co-Evaluator** (3-year undertaking): Cutright, T. (PI), Espanol, M. I., Leeper, T. C., Ott, D. W., & Willits, R. K. (Co-PIs). *Affording Opportunities for Success for First Generation, Economically Disadvantaged STEM Students, With an Emphasis on Appalachia*. National Science Foundation (\$638, 676).

**April 2015-present - Lead Evaluator:** LeBron James Family Foundation, *Wheels for Education/Akron I PROMISE Network* program for youth in Akron Public School District (5-year undertaking)

- Development of program *logic model* and implementation of *formative* and *summative evaluation* of program to determine program improvements and program impact over a 5-year period

**June 2016 – June 2017 – Evaluator** (1 year undertaking). Makki, N., & Mallik, R. (Co-PIs). *Partnership to improve physics introduction through inquiry*. Ohio Board of Regents (\$69,863).

**May 2016 – July 2016 – Workshop Developer and Facilitator - National Institute of Standards and Technology** (U.S. Department of Commerce).

- Developed and facilitated 3-week workshop on development of surveys for usability testing.

**January 2015-August 2016 - Evaluator** (1.5 year undertaking). Makki, N., & Mallik, R. (Co-PIs). *Partnership to improve physics introduction through inquiry*. Ohio Board of Regents (\$69,863).

**February 2015-May 2015 - Co-Evaluator.** Merrill, T. (PI). *PenUltimate Reading and Writing Enhancement Program*. Flo K Gault and the Martha Holden Jennings Foundation.

**May 2007 – February 2015 - Psychometric Consultant:** MetriKs Amérique  
Supervisor: Gregory E. Stone, Ph.D.

- Consulted in *psychometric analysis* of multiple-choice performance assessments and oral examinations for the American Osteopathic Board of Surgery (AOBS)
- Assisted in *facilitating workshops* for the AOBS to aid them in improving their multiple-choice and oral examinations

- Consulted for Laying the Foundation in the *development of measures* of middle and high school students' college readiness and degree of teacher engagement in the Laying the Foundation program implemented in California, Texas, and Massachusetts

**June 2014-August 2014 - *Sub-contracted Evaluator/Psychometrician*** (6-month undertaking).

Sondergeld, T. A (PI), & Reinhart, R. A., (2013, December). *Oregon City Schools assessment development, pilot, and state-wide dissemination*. Ohio Department of Education's Straight A Fund (\$200, 431). Evaluation of quality of teacher created assessments after participating in professional development workshops. Psychometric and statistic analysis of assessment results. Profile report preparation for each school on students' assessment results.

**May 2014-June 2014 - *Lead Evaluator, Koskey, K. L. K., & Kushner-Benson, S.*** Evaluation of two place-based middle school programs in science and history offered through a partnership between Akron Public Schools and Stan Hywet Hall & Gardens. Funded by Martha Holden Jennings (10k), Dominion Foundation (6k), and ONNOVA (5k). Evaluating second pilot of programs with plan to use the data to inform a future larger grant submission in partnership with APS and Stan Hywet Hall & Gardens.

**August 2010 – November 2010 - *Survey Development:*** U. S. Department of State, Franco-American Commission for Educational Exchange, & French Ministry of Education. *Franco-American Teachers-in-Training Institute*, The University of Akron.

- Developed the Franco-American Teachers-in-Training Institute U.S. Student pre, post, and follow-up surveys to assess the impact of the institute on U.S. students' teaching practices

**April 2008 – September 2010 - *Psychometric Consultant:*** American Board for Certification of Teacher Excellence (ABCTE)

- *Conducted psychometric analyses* of multiple-choice performance assessments including item analyses, differential item functioning (DIF) analyses, test equating, and computation of conversion tables

**2005 - 2006 - *Research Assistant:*** National Science Foundation, Math and Science Partnership – Motivation Assessment Program, The University of Michigan  
Supervisor: Stuart Karabenick, Ph.D.

- *Adapted the cognitive pre-testing method* to investigate elementary and middle school students' understanding of survey items assessing classroom goal structure
- *Developed codebook* for interpreting elementary and middle school students' verbal responses to survey items
- *Provided quantitative and qualitative feedback on cognitive validity* of children's understanding of survey items to inform the development and improvement of measures of classroom goal structure
- *Prepared results* for scholarly presentation and publication

**May 2005 - August 2005 - *Research Assistant:*** Jacobs Foundation, The University of Toledo  
Supervisor: Elizabeth A. Linnenbrink, Ph.D.

- *Coordinated and participated in data collection, management, and analysis* for a research project investigating high school students' motivation, learning, and interest in biology

**2003 - 2004 - *Research Assistant:*** Expanding Children's Caring About Others<sup>®</sup>, Baldwin-Wallace College  
Supervisor: Michael Dwyer, Ph.D.

- *Coordinated observations* of over 1,100 elementary school students across four school districts
- *Trained research assistants on identifying and classifying aggressive behavior in kindergarten children*
- *Conducted qualitative observations* of kindergarten students' classroom behavior
- *Participated in data management and analysis*

## OTHER RESEARCH SERVICE

### **August 2013 *Free Statistical Analysis and Reporting***

- Sondergeld, T. A., & Koskey, K. L. K. (2013, August). *Results for prostate weight and complications data set*. Provided statistical consulting, data analyses, and technical report summarizing results to medical student in the field of Urology for a research study to be presented at a medical conference.

### **2004 - 2009 *Research Assistant*, The University of Toledo**

- *Quantitative and qualitative data collection, management, and analysis* for individual research projects and local and federal grants
- *Prepared results* for scholarly reports

### **2003 - 2004 *Student Research Coordinator*, Baldwin-Wallace College**

Supervisor: Curtis Brant, Ph.D.

- *Researched, located, and ordered test measures* for students and instructors
- *Provided assistance for research methods students* in forming research hypotheses and analyzing data

## PROFESSIONAL SERVICE

### **Editorial Services**

**January 2014 – June 2015 *Editorial Board Member: Psychological Assessment***

**October 2010 – October 2013 *Co-Editor* (3-year term): *Mid-Western Educational Researcher***

- **May 2012 – October 2013 *Co-Managing Editor***

### **Book and Book Chapter Reviews**

**June 2016** – Improve the flipped classroom with universal design for learning. Book chapter to appear in the *Handbook of research on innovative pedagogies and technologies for online learning in higher education*. IGI Global.

**December 2015** – *Educational assessment of students* (7th ed.). Boston, MA: Pearson.

**April 2015** – *Casebook for group concept mapping: Applications and enhancements*. Book proposal submitted to Sage.

**January 2013** - Spaulding, D. T. (due out 2014). *Program evaluation in practice: Core concepts and examples for discussion and analysis* (2nd ed). San Francisco, CA: Jossey-Bass.

- Editor requested a review of the draft of the second edition of this textbook and feedback on each chapter.

**August 2011** - Spaulding, D. T. (2008). *Program evaluation in practice: Core concepts and examples for discussion and analysis*. San Francisco, CA: Jossey-Bass.

### **Journal Reviews**

**October 2011 – present *Manuscript Reviewer: Journal of Mixed Methods Research***

**May 2010 – present *Manuscript Reviewer: Psychological Assessment***

**December 2010 – present *Manuscript Reviewer: Journal of Educational Psychology***

**November 2011 – *Ad hoc Manuscript Reviewer: Field Methods***

**June 2010 *Ad hoc Manuscript Reviewer:*** *Measurement: Interdisciplinary Research and Perspectives*

## **Reviews of Conference Proposals**

**August 2015 *Proposal Reviewer:*** American Educational Research Association – Division D Section 1: Psychometrics, Measurement, & Assessment, Mixed Methods Research Sig, and Rasch Measurement Sig

**February 2015 *Proposal Reviewer:*** American Educational Research Association – Division D Graduate Student In-Progress Research Gala

**August 2014 *Proposal Reviewer:*** American Educational Research Association – Division D Section 1: Psychometrics, Measurement, and Assessment

**February 2014 *Proposal Reviewer:*** American Educational Research Association – Division D Graduate Student In-Progress Research Gala

**August 2013 *Proposal Reviewer:*** American Educational Research Association – Rasch Sig.

**August 2013 *Proposal Reviewer:*** American Educational Research Association – Mixed Methods Sig.

**August 2013 *Proposal Reviewer:*** American Educational Research Association – Division D, Measurement and Research Methodology

**August 2012 *Proposal Reviewer:*** American Educational Research Association – Rasch Sig

**August 2011 *Proposal Reviewer:*** American Educational Research Association – Mixed Methods Sig

**August 2011 *Proposal Reviewer:*** American Educational Research Association – Division D Measurement and Research Methodology/Section 1: Educational Measurement, Psychometrics, and Assessment

**August 2010 *Proposal Reviewer:*** American Educational Research Association – Division H Research, Evaluation, and Assessment in Schools/Section 1 – Applied Research in the Schools

**February 2010 *Publication Competition Reviewer:*** American Educational Research Association – Division H Outstanding Publications Competition, Category 5 (Summary Reports/NCLB Information Materials)

**December 2010, November 2009, August 2009 *Proposal Reviewer:*** National Association for Research in Science Teaching-Strand 10: Curriculum, Evaluation, & Assessment

**January 2010 *Proposal Reviewer:*** American Educational Research Association – Division D Graduate Student Poster Session In-Progress Research Gala

**November 2009 *Proposal Reviewer:*** National Association for Research in Science Teaching – Strands 2 (Science Learning) and 12 (Educational Tech.)

**November 2009, January 2009 *Proposal Reviewer:*** National Association for Research in Science Teaching-Strand 1: Science Learning, Understanding and Conceptual Change

## **Other Service**

**February 2012 *Invited Reviewer:*** Joint Committee on Standards for Educational Evaluation

**August 2011 - present *Historian*:** American Psychological Association, Division 5 – Research, Measurement, & Statistics

**March 2010 *Discussant*:** Educational Research Exchange – Session: Evaluation, Measurement, and Statistics

## UNIVERSITY RELATED SERVICE

### Service on Department Committees

**August 2014 – May 2016:** Department Faculty Chair

**August 2010-May 2016:** Executive Committee Member

**August 2010-May 2014:** Department Faculty Secretary

**Spring 2012:** Search Committee Member, tenure-track professor position in Educational Psychology

**August 2010-May 2012:** Collaborated on developing new master's and certificate degree programs in Educational Foundations: Assessment & Evaluation

**August 2010-May 2010:** Personnel Committee, Co-Chair

### Service on College Committees

**August 2015 – present:** College Review for Tenure & Promotion Committee Member

**August 2014-October 2014:** College Review for Tenure & Promotion Committee Member

**November 2013 – May 2014:** Ad Hoc Committee on Mission, Guiding Principles, and Metrics Committee Member

**August 2010-present:** Graduate Studies Committee Member (2-year terms)

**December 2012-May 2011:** Doctoral Program Steering Committee Member

**December 2012-May 2011:** Marketing Ad Hoc Committee Chair

**August 2011-September 2011:** Search Committee Member for the Director for Assessment and Accreditation

### Service on University Committees

**January 2016-March 2016:** NEXT Conference Steering Committee Member

**August 2014-present:** University Council Steering Committee Member (2-year term)

**May 2014-present:** University Council (3-year term)

**August 2013-present:** Institutional Review Board Member (3-year term)

**September 2012-May 2014:** Faculty Senate (3-year term) – Elected Representative for the College of Education

**August 2011-May 2013:** University Libraries Committee Member

## PROFESSIONAL DEVELOPMENT

*Using Dedoose to enhance the qualitative research process* (January 29, 2016). Workshop hosted at the Ethnographic & Qualitative Research Conference, Las Vegas, NV.

*GradNation Summit* (January 7, 2016). *Challenges and solutions for raising High School Graduation Rates: Preparing all young people for success.* One-day workshop hosted by Summit Education Initiative, America's Promise Alliance, and ATT's GradNation.

*Decoding the Standards: Overview of the Joint Standards for Educational and Psychological Testing* (April, 2015). Webinar hosted by the Buros Center for Testing.

*Mixed Methods Research Analyzing Survey Data with NVivo* (2013, June 19th). Webinar hosted by Stuart Robertson of QSR International.

*Structural Equation Modeling: Basic Concepts and Applications* (2012, August). Workshop hosted at the American Psychological Association Annual Convention.

*Using NVivo to Improve Research Team Collaboration* (2012, June). Webinar hosted by QSR International.

*Quality Matters in Online Course Design* (2010, April). Five-week online course on implementing the quality matters rubric in online course design, The University of Akron.

*Building the NSF Grant Proposal* (2008, December). Grant writing workshop, The University of Toledo.

*Analysis of Missing Data* (2007, April). Workshop hosted at the Annual meeting of the American Educational Research Association. Chicago, IL.

*Understanding the Development of Children from an Ecological Perspective* (2006, August). ICPSR Summer Program in Quantitative Methods of Social Science Research, University of Michigan.

## AWARDS & HONORS

- 2016** Outstanding Research Award, The University of Akron, LeBron James Family Foundation College of Education
- 2015** Outstanding Teaching Award, The University of Akron, College of Education
- 2014** Quality Matters Certified/Recognized for online course developed for Introduction to Classroom Assessment, The University of Akron
- 2012** Quality Matters Certificated/Recognized for online course developed for Introduction to Educational Evaluation, The University of Akron
- 2009** Outstanding Graduating Student in Educational Psychology, The University of Toledo
- 2009** Most Engaging Instructor, *Admission Journals* (student-led), The University of Toledo
- 2008** Helen M. Fields Memorial Achievement Award, The University of Toledo
- 2007** National Dean's List, The University of Toledo
- 2007** Zucker Memorial Fund Scholarship, The University of Toledo
- 2006** Outstanding Graduating Student in Educational Psychology, The University of Toledo
- 2006** Robert and Wrey Warner Barber Scholarship, The University of Toledo
- 2005** Lunt Family Scholarship, The University of Toledo
- 2004** William Prokasy Psychology Alumni Award/Scholarship, Baldwin-Wallace College
- 2003** Pitcher Psychology Award, Baldwin-Wallace College

## CURRENT PROFESSIONAL AFFILIATIONS

- American Evaluation Association
- American Educational Research Association
  - Division D: Measurement and Research Methodology
  - Division H: Research, Evaluation, and Assessment in Schools
  - Rasch Sig
  - Mixed Methods Sig

## SOFTWARE PROGRAMS

- Proficient in Collaborate, Desire2Learn, G\*Power 3, Excel, FACETS, SPSS, Qualtrics, and WINSTEPS, WebEx