

Comprehensive Curriculum Vita

W. Holmes Finch
George and Frances Ball Distinguished Professor of Educational Psychology
Department of Educational Psychology
Ball State University
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Faculty Affiliate
Learning and Performance Research Center
Washington State University
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Faculty Affiliate
Fisher Institute of Health and Well-Being
Ball State University
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Faculty Affiliate
Department of Counseling Psychology
Ball State University
College of Health

Education

Ph.D. Educational Psychology and Research, University of South Carolina, 2002

Major area: Statistics and measurement

Dissertation: Comparison of the performance of NOHARM and conditional covariance methods of dimensionality assessment: Type I, power and item dimension clustering

M.Ed. Educational Research, University of South Carolina, 1990

Major area: Statistics and measurement

B.A. History (Magna cum laude), University of South Carolina, 1987

Professional experience:

August, 2014-Present, George and Frances Ball Distinguished Professor of Educational Psychology, Department of Educational Psychology, Ball State University.

November, 2018-Present, Faculty Research Affiliate, Fisher Institute of Health and Well-Being, Ball State University.

August, 2010-2014, Professor, Department of Educational Psychology, Ball State University – Teach courses in statistics, measurement and research methodology.

August, 2008-2010, Associate Professor, Department of Educational Psychology, Ball State University – Teach courses in statistics, measurement and research methodology.

August, 2003-2008, Assistant Professor, Department of Educational Psychology, Ball State University – Teach courses in statistics, measurement and research methodology.

September, 2002-August, 2003, Statistician, Early Alliance Project, Department of Psychology, USC – Provided statistical analysis services to principal investigators and graduate assistants working on the Early Alliance Project.

June, 2002-September, 2002, Consultant, Arcadia Analytics – Conducted statistical analyses of product sales data using time series analysis, including standard ARIMA models, as well as nonparametric models.

August, 1990-June, 2002, Manager, Statistical Laboratory, Department of Statistics, USC - Provided statistical consulting services within the university and, under contract, to state agencies and local industries.

September, 1989-August, 1990, Research Analyst in the South Carolina State Department of Education - Designed studies to evaluate programs created by the Education Improvement Act, conducted secondary analysis of statistical data and standardized test scores associated with these programs, wrote reports of these studies.

Professional Affiliations

On call scientist, American Association for the Advancement of Science (2020-present)
American Educational Research Association (1999-present)
Educational Statisticians SIG of AERA (1999-present)
Structural Equation Modeling SIG of AERA (2004-present)
Multiple Linear Regression SIG of AERA (2006-present)
Hierarchical Linear Modeling SIG of AERA (2008-present)
National Council of Measurement in Education (2000-present)
Psychometric Society (2001-present)
American Statistical Association (1995-present)
Institute of Mathematical Statistics (2004-present)
Affiliate, Purdue University Psychometric Investigation Laboratory (2005-present)
American Psychological Association, Division 5 (2004-present)
Midwestern Psychological Association (2006-present)
Indiana Academy of Science (2005-present)

Professional Recognition & Awards

Outstanding Faculty Award, Ball State University (2021).

Fellow of the American Educational Research Association (2020)
Outstanding Service Award from the Structural Equation Modeling Special Interest Group of the American Educational Research Association (2019).

Outstanding Research Award, Teachers' College, Ball State University (2016).

Best paper of the year award (2013), International Studies Special Interest Group, American Educational Research Association. "Student, School, and Country: The Relationship of Socioeconomic Status and Inequality to Achievement", with Gregory Marchant.

The Outstanding Faculty Research award, Ball State University (2012)

Most downloaded manuscript by SAGE publications in 2009-2010. "Item Parameter Estimation for the MIRT Model: Bias and Precision of Confirmatory Factor Analysis--Based Models" published in *Applied Psychological Measurement*.

Recipient of the American Psychological Association, Division 5 Anne Anastasi Early Career Award (2009).

Outstanding Junior Faculty Award, Ball State University (2007).

Outstanding Teaching Award, Teachers' College, Ball State University (2007).

Staff member of the Year Award, College of Science and Mathematics, University of South Carolina (2001).

Publications

Books

Hidalgo Montesinos, M.D., French, B.F., Finch, W.H., & Immekus, J. (under contract). *Psicometria Aplicada Usando SPSS y AMOS*. Greenwich, CT: Information Age Publishing.

Finch, W.H. (under contract) *Adaptive Regularization Methods for the Social Sciences*. Boca Raton, FL: CRC Press.

Finch, W.H., Hernández Finch, M.E., & Hazelwood, A. (2021). *Applied Single Subjects Research for School Psychologists and Educators*. Greenwich, CT: Information Age Publishing.

Finch, W.H. (2019). *Exploratory Factor Analysis*. Thousand Oaks, CA: Sage.

Finch, W.H., Bolin, J.E., & Kelley, K. (2019). *Multilevel modeling using R, 2nd edition*. Boca Raton, FL: CRC Press.

Finch, W.H. & French, B.F. (2018). *Educational and Psychological Measurement*. New York, NY: Routledge.

Finch, W.H. & Bolin, J.E. (January, 2017). *Multilevel modeling using Mplus*. Boca Raton, FL: CRC Press.

Finch, W.H., French, B.F. & Immekus, J. (June, 2016). *Applied psychometrics using*

- SPSS. Greenwich, CT: Information Age Publishing.
- Finch, W.H., & French, B.F. (June, 2015). *Latent variable models in R*. New York, NY: Routledge.
- Finch, W.H., Holden, J.E., & Kelley, K. (June, 2014). *Multilevel modeling using R*. Boca Raton, FL: CRC Press.
- Finch, W.H., French, B.F. & Immekus, J. (July, 2014). *Applied psychometrics using SAS*. Greenwich, CT: Information Age Publishing. Expected publication, 2014.

Publications in refereed journals

In Press

- Shim, S. S., Finch, W. H., Cho, Y., & Knapke, M.(accepted). Understanding teachers' job satisfaction, intention to leave, and flow from a self-determination theory perspective. *Educational Psychology*.
- Peterman, J.E., Bassett, D.R., Finch, W.H., Harber, M.P., Whaley, M.H., Fleenor, B.S., & Kaminsky, L.A. (in press). Associations between active commuting and cardiovascular disease in the United States. *Journal of Physical Activity & Health*.
- Finch, W.H. (in press). An Investigation into Whether Left-Handed Players Have an Advantage in Winning Tennis Matches: Men's Tour 1970-2019. *Journal of Sports Research*.
- Finch, W.H. (in press). SEM estimation in the context of small samples: Comparison of latent variable models, single indicator, regularized 2-stage least squares and observed variable models. *General Linear Model Journal*.
- Mangino, A.A., Smith, K., Finch, W.H., & Hernández Finch, M.E. (in press). Improving Predictive Classification Models Using Generative Adversarial Networks in the Prediction of Suicide Attempts. *Measurement and Evaluation in Counseling and Development*.
- Finch, W.H. (in press). Multivariate Analysis of Variance for Multilevel Data: A Simulation Study Comparing Methods. *Journal of Experimental Education*.
- Fletcher, K.L., Speirs Neumeister, K., Pierson, E.E., & Finch, W.H. (in press). Overparenting and Perfectionistic Concerns Predict Academic Entitlement in Young Adults. *Journal of Child and Family Studies*.
- Malm, S., Pierson, E.E., Finch, W.H., Morey, L.C., Spengler, P., & Johnson, J. (in press). Detecting Feigning in Adolescents on the personality Assessment Inventory – Adolescent Form. *Journal of Personality Assessment*.
- Finch, W.H. (in press). Using Fit Statistic Differences to Determine the Optimal Number of Factors to Retain in an Exploratory Factor Analysis. *Educational and Psychological Measurement*.
- Chambers, T., Burnett, T., Raue, U., Lee, G., Finch, W.H., Graham, B., Trappe, T., & Trappe, S. (in press). Skeletal Muscle Size, Function, and Adiposity with Lifelong Aerobic Exercise. *Journal of Applied Physiology*.
- Peterman, J., Harber, M., Imboden, M., Whaley, Fleenor, W.B., Myers, J., Arena, R., Finch, H., & Kaminsky, L. (in press). Accuracy of Non-Exercise Prediction Equations for Assessing Longitudinal Changes to Cardiorespiratory Fitness in Apparently Healthy Adults: The Ball State Adult Fitness Longitudinal Lifestyle Study. *Journal of the American Heart Association*.

- Finch, W.H. (in press). Determining the Number of Topics to Retain using Tools from Factor Analysis. *Journal of Statistical and Econometric Modeling*.
- Finch, W.H. (in press). A comparison of the Heckman selection model and Ibrahim and Lipsitz methods for dealing with nonignorable missing data. *Journal of Psychiatry and Behavioral Sciences*.
- Mangino, A.A. & Finch, W.H. Prediction with Mixed Effects Models: A Monte Carlo Simulation Study. *Educational and Psychological Measurement*.

Year 20201

- Finch, W.H., Hernández Finch, M.E., & Mytych, K. (2021). Not one pandemic: A multilevel mixture model investigation of the relationship between poverty and the course of the Covid-19 pandemic death rate in the United States". *Frontiers in Sociology*, 6.
- Finch, W.H., Hernández Finch, M.E., French, B.F., & Braun, C. (2021). Latent dirichlet analysis to aid equity in the identification for Gifted Education. *Psychological Test and Assessment Modeling*, 63(3), 305-336.
- Dale, B., Finch, W.H., Schellebarger, K., & Davis, A.S. (2021). Wechsler Intelligence Scale for Children, Fifth Edition profiles of children with Autism Spectrum Disorder using a classification and regression trees analysis. *Journal of Psychoeducational Assessment*, 39(7), 783-799.
- Finch, W.H. & Miller, J.E. (2021). A comparison of regularized maximum-likelihood, regularized 2-state least squares, and Maximum-Likelihood estimation with misspecified models, small samples, and weak factor structure. *Multivariate Behavioral Research*, 56(4), 608-626..
- Finch, W.H. (2021). Performance of the grade of membership model under a variety of sample sizes, group size ratios, and differential group response probabilities for dichotomous indicators. *Educational and Psychological Measurement*, 81(3), 523-548.
- Parh, M.Y.A., Begum, M., Harber, M., Fleenor, B.S., Whaley, M., Finch, W.H., Peterman, J., & Kaminsky, L. (2021). Subgroup identification for differential cardio-respiratory fitness effect on cardiovascular disease risk factors: A model-based recursive partitioning approach. *Journal of Statistical Research*, 54(2), 147-165.
- Grosicki, G., Gries, K., Minchev, K., Raue, Ul, Chambers, T., Begue, G., Finch, H., Graham, B., Trappe, T.A., & Trappe, S. (in press). Single Muscle Fiber Contractile Characteristics with Lifelong Endurance Exercise. *Journal of Physiology*, 599(14), 3549-3565..

Year 2020

- Finch, W.H. & Hernández Finch, M.E. (2020). Modeling of Self-Report Behavior Data using the Generalized Covariates in a Uniform and Shifted Binomial Mixture Model: An Empirical Example and Monte Carlo Simulation. *Psychological Methods*, 25(1), 113-127.
- Finch, W.H. & Hernández Finch, M.E. (2020). Poverty and Covid-19: Rates of incidence and deaths in the United States during the first 10 weeks of the pandemic. *Frontiers in Sociology*, 5, 1-10.
- Cassady, J.C. & Finch, W.H. (2020). Revealing Nuanced Relationships Among

- Cognitive Test Anxiety, Motivation, and Self-Regulation Through Curvilinear Analyses. *Frontiers in Psychology*, 11, 1-13.
- McIntosh, C. E., Hernández Finch, M., Thomas, C, Finch, W., Hulse, A., Brelage, P., & McIntosh, D. (2020). Evaluating self-efficacy and personality differences of nursing students in ASD clinical simulation. *Journal of Nursing Education & Practice*. 10(9) 12-20. DOI: 10.5430/jnep.v10n9p12
- Ridgley, L. M., Rubenstein, L. D., & Finch, W. H. (2020). Issues and opportunities when using rating scales to identify creatively gifted students: Applying an IRT approach. *Gifted and Talented International*, 34(1-2), 6-18.
- Finch, W.H. (2020). Estimation of Nonlinear Structural Equation Models with Dichotomous Indicator Variables: A Monte Carlo Comparison of Methods. *International Journal of Quantitative Research in Education*, 5(1), 39-66.
- Elam, N. & Finch, W.H. (2020). Examining the Relationship Between Teacher Performance Ratings and District Under the Ohio Teacher Evaluation System. *Journal of Education and Training Studies*, 8(4).
- Year 2019**
- Gries, K.J., Minchev, K., Raue, U., Grosicki, G.J., Begue, G., Finch, W.H., Graham, B., Trappe, T.A., & Trappe, S. (2019). Single Muscle Fiber Contractile Properties in Lifelong Aerobic Exercising Women. *Journal of Applied Physiology*, 127, 1710-1719.
- Finch, W.H. (2019). A comparison of clustering methods when group sizes are unequal, outliers are present, and in the presence of noise variables. *General Linear Model Journal*, 45(1), 12-22.
- Finch, W.H. & Miller, J.E. (2019). The Use of Informative Priors in the Estimation of MIMIC Model Parameters with Small Sample Sizes. *Structural Equation Modeling*, 26(4), 497-508.
- Roberds, E., Davis, A.S., Finch, W.H., & Pierson, E.E. (2019). Evaluating the Relation between CHC Cognitive Factors and Selected Components of Executive Functioning. *Journal of Pediatric Neuropsychology*.
- Imboden, M.T., Harber, M.P., Whaley, M.H., Finch, W.H., Bishop, D.A., Fleenor, B.S., & Kaminsky, L.A. (2019). The Influence of Change in Cardiorespiratory Fitness with Short-Term Exercise Training on Mortality Risk from the Ball State Adult Fitness Longitudinal Lifestyle Study. *Mayo Clinic Proceedings*, 94(8), 1406-1414.
- French, B.F., Finch, W.H., & Immekus, J.C. (2019). Multilevel Generalized Mantel-Haenszel For Differential Item Functioning Detection. *Frontiers in Quantitative Psychology*, 4, 47-57.
- Imboden, M.T., Harber, M.P., Whaley, M.H., Finch, W.H., Bishop, D.L., Fleenor, B.S., & Kaminsky, L.A. (2019). The Association Between the Change in Directly Measured Cardiorespiratory Fitness across Time and Mortality Risk. *Progress in Cardiovascular Disease*, 62(2), 157-162.
- Finch, W.H. & French, B.F. (2019). A Comparison of Estimation Techniques for IRT Models with Small Samples. *Applied Measurement in Education*, 32(2), 77-96.
- Finch, W.H., French, B.F., & Hernández Finch, M.E. (2019). Quantifying Item Invariance for the Selection of the Least Biased Assessment. *Journal of Applied Measurement*, 20(1), 13-26.

- Finch, W.H. (2019). Comparison of Measurement Invariance Testing using Penalized Likelihood and Maximum Likelihood Estimators: A Monte Carlo Simulation Study. *General Linear Model Journal*, 44(2), 20-33.
- Finch, W.H. (2019). A Monte Carlo Simulation Study Assessing the Performance of a Bayesian Approach for Identifying Differences in Change Point Location for Two Time Series. *Journal of Statistical and Econometric Methods*, 8(3), 49-63.

Year 2018

- Finch, W.H., Hernández Finch, M.E., French, B.F., McIntosh, D.E., & Moss, L. (2018). Methods for the Comparison of Differential Item Functioning Across Assessments. *Journal of Applied Measurement*, 19(1), 26-40.
- Finch, W.H., Hernández Finch, M.E., McIntosh, C.E., & Braun, C. (2018). The use of Topic Modeling with Latent Dirichlet Analysis with Open-Ended Survey Items. *Translational Issues in Psychology*, 4(4), 403-424.
- Bolin, J.E., Finch, W.H., & Stenger, R. (2018). Estimation of Random Coefficient Multilevel Models in the Context of Small Numbers of Level-2 Clusters. *Educational and Psychological Measurement*, 79(2), 217-248.
- Mucherah, W., Finch, H., White, T., & Thomas, K. (2018). The Relationship of School Climate, Teacher Defending and Friends on Students' Perceptions of Bullying in High School. *Journal of Adolescence*, 62, 128-139.
- Finch, W.H. (2018). Modeling High Dimensional Multilevel Data using the LASSO Estimator: A Simulation Study. *Journal of Statistical and Econometric Modeling*, 7(1), 51-75.
- Kelly, E., Imboden, M.T., Harber, M.P., Finch, H., Kaminsky, L.A., & Whaley, M.H. (2018). Cardiorespiratory Fitness is Inversely Associated with Clustering of Metabolic Syndrome Risk Factors: The Ball State Adult Fitness Program Longitudinal Lifestyle Study. *Mayo Clinic Proceedings: Innovations, Quality & Outcomes*, 2(2), 155-164.
- Finch, W.H. & Hernández Finch, M.E. (2018). A Simulation Study Evaluating the Generalized Additive Model for Assessing Intervention Effects with Small Samples. *Journal of Experimental Education*, 86(4), 652-670.
- Gries, K., Raue, U., Perkins, R., Lavin, K., Overstreet, B., D'Aquisto, L., Graham, B., Finch, H., Kaminsky, L., Trappe, T., & Trappe, S. (2018). Cardiovascular and Skeletal Muscle Health with Lifelong Exercise. *Journal of Applied Physiology*, 125, 1636-1645.
- Imboden, M.T., Harber, M.P., Whaley, M.H., Finch, W.H., Bishop, D.L., & Kaminsky, L.A. (2018). Cardiorespiratory Fitness Measured from Cardiopulmonary Exercise Testing for Predicting Mortality in Healthy Men and Women. *Journal of the American College of Cardiology*, 72(19), 2283-92.
- Finch, W.H. & French, B.F. (2018). A Simulation Investigation of the Performance of Invariance Assessment using Equivalence Testing Procedures. *Structural Equation Modeling*, 25(5), 673-686.
- Thomas, C., Cassady, J.C. & Finch, W.H. (2018). Identifying Severity Standards on the Cognitive Test Anxiety Scale: Cutscore Determination Using Latent Class and Cluster Analysis. *Journal of Psychoeducational Assessment*, 36(5), 492-508.
- Finch, W.H., French, B.F., & Hernández Finch, M.E. (2018). Comparison of

- Methods for Factor Invariance Testing of a 1-Factor Model with Small Samples and Skewed Latent Traits. *Frontiers in Quantitative Psychology and Measurement*, 9.
- Edwards, J.E. & Finch, W.H. (2018). Recursive Partitioning Methods for Data Imputation in the Context of Item Response Theory: A Monte Carlo Simulation. *Psicologia*, 39, 88-117.
- Finch, W.H. & Shim, S. (2018). A Comparison of Methods for Estimating Relationships in the Change Between Two Time Points for Latent Variables. *Educational and Psychological Measurement*, 78(2), 232-252.
- Wang, L. & Finch, W.H. (in press). Motivation Variables Mediate the Relationship between Socioeconomic Status and Academic Achievement. *Psychology and Education: An Interdisciplinary Journal*, 55(1).
- Wang, L., Ester, D., & Finch, W.H. (in press). Spatial Abilities and Visual Memory among Education, Mathematics, and Music Majors. *Psychology and Education: An Interdisciplinary Journal*, 55(2).

Year 2017

- Callan, G., Finch, W.H., Marchant, G.E., & Flegge, L. (2017). Student and School SES, Gender, Strategy Use, and Achievement. *Psychology in the Schools*, 54(9), 1106-1122.
- Imboden, M., Harber, M., Finch, W.H., & Kaminsky, L. (2017). Reference standards for body fat measures using GE dual energy x-ray absorptiometry in Caucasian adults. *PLOS ONE*, 12(4).
- Imboden, M., Harber, M., Finch, W.H., & Kaminsky, L. (2017). Reference standards for lean mass measures using GE dual energy x-ray absorptiometry in Caucasian adults. *PLOS ONE*, 12(4), 1-13.
- Finch, W.H. (2017). Investigation of parameter Estimation Accuracy for Growth Curve Modeling with Categorical Indicators. *Methodology*, 13(3), 98-112.
- Finch, W.H. (2017). Structural Equation Modeling Recursive Partitioning Algorithms for Invariance Assessment. *International Journal of Quantitative Research in Education*, 4(1/2), 72-93.
- Finch, W.H. & Hernández Finch, M.E. (2017). Multivariate Regression with Small Samples: A Comparison of Estimation Methods. *General Linear Model Journal*, 43(1), 16-30.
- Ozemek, C., Whaley, M., Kaminski, L., & Finch, W.H. (2017). Maximal heart rate declines linearly with age independent of cardiorespiratory fitness levels. *European Journal of Sports Science*, 1-8.
- Finch, W.H. (2017). Multilevel Modeling in the Presence of Outliers: A Comparison of Robust Estimation Methods. *Psicologica*, 38, 57-92.

Year 2016

- Finch, W.H. & Hernandez Finch, M.E. (2016). Fitting Exploratory Factor Analysis Models with High Dimensional Psychological Data. *Journal of Data Science*, 14(3), 519-537.
- Callan, G., Marchant, G.J., Finch, W.H., & German, R.L. (2016). Metacognition, Strategies, Achievement, and Demographics: Relationships Across Countries.

- Educational Sciences: Theory and Practice*, 16(5).
- Finch, W.H. & French, B.F. (2016). Quantifying the Influence of Partial Factorial Invariance on Mean Comparisons: Two Proposed Effect Sizes. *International Journal of Quantitative Research in Education*, 3(4), 292-313.
- Finch, W.H. (2016). Comparison of Multivariate Means across Groups with Ordinal Dependent Variables: A Monte Carlo Simulation Study. *Frontiers in Applied Mathematics and Statistics* 2(2).
- French, B. F., Finch, W. H., & Valdivia Vazquez, J. A. (2016). Predicting Differential Item functioning on Mathematics Items using multilevel SIBTEST. *Psychological Test and Assessment Modeling*, 58, 471-483.
- Finch, W.H. & Edwards, J.M. (2016). Rasch Model Parameter Estimation in the Presence of a Nonnormal Latent Trait using a Nonparametric Bayesian Approach. *Educational and Psychological Measurement*, 74(4), 662-684.
- Finch, W.H., Hernandez Finch, M.E., & Singh, M. (2016). Data Imputation Algorithms for Mixed Variable Types: An Application in Large Scale Educational Assessment. *International Journal of Quantitative Research in Education*, 3(3), 129-153.
- French, B.F. & Finch, W.H. (2016). Factorial Invariance Testing under Different Levels of Partial Loading Invariance within a Multiple Group Confirmatory Factor analysis Model. *Journal of Modern Applied Statistical Methods*, 15(1), 511-538.
- Davis, A.S., Finch, W.H., Nogin, R., Moss, L.E., Drapeau, C.W., & Moore, B. (2016). Predicting Verbal Fluency using Word Reading: Implications for Premorbid Functioning. *Applied Neuropsychology: Adult*.
- Finch, W.H. & Hernandez Finch, M.E. (2016). Regularization Methods for Fitting Linear Models with Small Sample Sizes: Fitting the Lasso Estimator using R. *Practical Assessment, Research & Evaluation*, 21(7), 1-13.
- Marchant, G.J. & Finch, W.H. (2016). Student, School, and Country: The Relationship of SES and Inequality to Achievement. *Journal of Global Research in Education and Social Sciences*, 6(4), 187-196.
- Ozemek, C., Whaley, M.H., Finch, W.H., & Kaminsky, L.A. (2016). High Cardiorespiratory Fitness Levels Slow the Decline in Peak Heart Rate with Age. *Medicine & Science in Sports & Exercise*, 48(1), 73-81.
- Finch, W.H. (2016). Detection of Differential Item Functioning for more than Two Groups: A Monte Carlo Comparison of Methods. *Applied Measurement in Education*, 29(1), 30-45.
- Finch, W.H. (2016). Missing Data and Multiple Imputation in the Context of Multivariate Analysis of Variance. *Journal of Experimental Education*, 84(2), 356-372.
- Finch, W.H., Hernandez Finch, M.E., & French, B.F. (2016). Recursive Partitioning to Identify Potential Causes of Differential Item Functioning in Cross-National Data. *International Journal of Testing*, 16(1), 21-53.
- Marchant, G.J. & Finch, W.H. (2016). Does a Rising Tide Lift all Boats? International Relative and Absolute SES and Achievement. *Journal of Global Research in Education and Social Science*, 7(3), 168-174.
- Finch, W.H. & Jeffers, H. (2016). A Q₃ Based Permutation Test for Assessing Local Independence. *Applied Psychological Measurement*, 40(2), 157-160.

- Finch, W.H., Cassady, J.C., & Jones, J. (2016). Investigation of the latent structure for the Learning and Study Strategies Inventory. *Journal of Psychoeducational Assessment, 34(1)*, 73-84.
- Finch, W.H. (2016). Recursive Partitioning in the Presence of Multilevel Data. *General Linear Model Journal, 41(2)*, 30-44.
- French, B.F., Finch, W.H., Randel, B., Hand, B., & Gotch, C. (2016). Measurement Invariance Techniques to Enhance Measurement Sensitivity. *International Journal of Quantitative Research in Education, 3(1)* 79-93.

Year 2015

- Cassady, J.C. & Finch, W.H. (2015). Using Factor Mixture Modeling to Identify Dimensions of Cognitive Test Anxiety. *Learning and Individual Differences, 41*, 14-20.
- Finch, W.H. & French, B.F. (2015). Logistic Regression and Model Based Recursive Partitioning for Item Evaluation. *General Linear Model, 41(1)*, 1-11.
- Boesek, J.J., Davis, A.S., Cassady, J.C., Finch, W.H., Gelder, B.C. (2015). Cognitive and Adaptive Skill Profile Differences in Children with Attention-Deficit/Hyperactivity Disorder with and without Comorbid Fetal Alcohol Spectrum Disorder. *Applied Neuropsychology-Child, 4(4)*, 230-236.
- Hernandez Finch, M.E., Maughn, E., Finch, W.H., McIntosh, C., & Thomas, C. (2015). Enhancing Collaboration between School Nurses and School Psychologists when Providing a Continuum of Care for Children with Medical Needs. *Psychology in the Schools, 52(7)*, 635-647.
- Davis, A.S., Williams, R.N., Gupta, A.S., Finch, W.H., & Randolph, C. (2015). Evaluating Neurocognitive Deficits in Patients with Multiple Sclerosis via a Brief Neuropsychological Approach. *Applied Neuropsychology: Adult, 22(5)*, 381-387.
- Finch, W.H. & French, B.F. (2015). Modeling of Nonrecursive Structural Equation Models with Categorical Indicators. *Structural Equation Modeling, 2(3)*, 416-428.
- Finch, W.H. (2015). Review of *Analyzing of Spatial Models of Choice and Judgment in R*. *Journal of Educational Measurement, 52(2)*, 252-255.
- French, B.F. & French, W.H. (2015). Transforming SIBTEST to Account for Multilvel Data Structures. *Journal of Educational Measurement, 52(2)*, 159-180.
- Finch, W.H. (2015). A Comparison of Statistics for Assessing Model Invariance in Latent Class Analysis. *Open Journal of Statistics, 5*, 191-210.
- Finch, W.H., Hernandez Finch, M.E., & Moss, L. (2015). Dimension Reduction Regression Techniques for High Dimensional Data. *Multiple Linear Regression Viewpoints, 40(2)*, 1-15.
- Fletcher, K.L. & Finch, W.H. (2015). The Role of Book Familiarity and Book Type on Mothers' Reading Strategies and Toddlers' Responsiveness. *Journal of Early Child Literacy, 15*, 73-96.

Year 2014

- Shim, S. & Finch, W.H. (2014). Academic and Social Achievement Goals and Adjustment in Middle School: A Latent Class Approach. *Learning and*

- Individual Differences*, 30, 98-105.
- Finch, W.H. & French, B.F. (2014). Multilevel Latent Class Analysis: Parametric and Nonparametric Models. *The Journal of Experimental Education*, 82(3), 307-333.
- Finch, W.H. (2014). Modeling nonlinear structural equation models: A comparison of the 2-stage Generalized Additive Model and the finite mixture structural equation model. *Structural Equation Modeling*.
- Finch, H. (2014). A Comparison of Methods for Prediction with High Dimensional Data. *Journal of Modern Applied Statistical Methods*, 13(2), 84-105.
- Bolin, J.E. & Finch, W.H. (2014). Supervised Classification in the Presence of Misclassified Training Data: A Monte Carlo Simulation Study in the Three Group Case. *Frontiers in Quantitative Psychology*, 5(118).
- Beaver, J.L., French, B.F., Finch, W.H., & Ullrich-French, S. (2014). Sex Differential Item Functioning in the Inventory of Early Development III Social-Emotional Skills. *Journal of Psychoeducational Assessment*, 32(8), 775-780.
- Cassady, J.C. & Finch, W.H. (2014). Confirming the Factor Structure of the Cognitive Test Anxiety Scale: Comparing the Utility of Three Solutions. *Educational Assessment Journal*, 19(3), 229-242.
- Mucherah, W., Ambrose-Stahl, D., Finch, W.H., & Smith, V. (2014). Exploring the Relationship between Classroom Climate, Reading Motivation, and Achievement: A Look into 7th Grade Classrooms. *International Journal of Learning, Teaching and Educational Research*, 8(1).
- Finch, W.H. (2014). Recursive partitioning methods for prediction in education: Application to the identification of students at-risk for academic failure. *International Journal of Quantitative Research in Education*, 2(2), 133-153.
- Finch, W.H. & Finch, M.H. (2014). Differential Item Functioning Analysis using a Multilevel Rasch Mixture Model: Investigating the impact of disability status and receipt of testing accommodations. *Journal of Applied Measurement*, 15(2), 133-151.
- Bolin, J.E., Edwards, J.M., Finch, W.H., & Cassady, J.C. (2014). Application of Cluster Analysis to the Creation of Perfectionism Profiles: A Comparison of Two Clustering Profiles. *Frontiers in Quantitative Psychology*, 5, 343-352.
- Finch, W.H., Davis, A., & Dean, R.S. (2014). Identification of Individuals with ADHD using the Dean-Woodcock Sensory Motor Battery and a Boosted Tree Algorithm. *Behavioral Research Methods*,
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Year 2004

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Years 1999-2002

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Book chapters

Year 2019

Finch, W.H. & French, B.F. (2019). Equivalence Testing for Factor Invariance Assessment with Categorical Indicators. In M. Wiberg, S. Culpepper, R. Janssen, & J. González, (Eds.). *New Developments in Quantitative Psychology*. Cham, Switzerland: Springer, pp. 229-242.

Year 2016

French, B.F. & Finch, W.H. (2016). Detecting Differential Item Functioning. In K. Schweizer and C. DiStefano, (Eds.). *Principles and Methods of Test Construction: Standards and Recent Advances*. Gottingen, Germany: Hogrefe Publishing.

Year 2015

Finch, W.H. (2015). A Comparison of Factor Rotation Methods for Dichotomous Data. In: Babones, S. (Ed.). *Latent Variables and Factor Analysis*. Thousand Oaks, CA: Sage Publications, pp. 549-570.

Year 2014

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Finch, W.H. (2013). Exploratory Factor Analysis. In T. Teo (Ed.), *Handbook of Quantitative Methods for Educational Research*. Rotterdam: Sense Publishers.

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Year 2011

Finch, W.H. & French, B.F. (2011). Student Achievement and Adequate Yearly Progress within the Indiana Charter School System. In J. Bovaird , & K. Geisinger, C. Buchendahl. *Assessment and psychometrics in the age of accountability*. Washington, DC: American Psychological Association.

Year 2007

Finch, W.H. & Davis, A.S. (2007). Action research. In A.M. Bursztyn (Ed.), *The Praeger Handbook of Special Education* (pp. 175-176). Westport, CT: Praeger.

Finch, W.H. & Davis, A.S. (2007). Quantitative research. In A.M. Bursztyn (Ed.), *The Praeger Handbook of Special Education* (pp. 184-186). Westport, CT: Praeger.

Festschrift

Year 2007

Finch, H. & Jameson, M.M. (2007). Prior statistics coursework and student expectations of a graduate statistics class. In *Festschrift in honor of Mir Masoom Ali* (pp. 185-189). Muncie, IN: Ball State University.

Test Reviews

Year 2010

Davis, A. S., & Finch, W. H. (2010). Review of Western Aphasia Battery-Revised. In

- K. F. Geisinger, R. A. Spies, J. F. Carlson, & K. F. Geisinger (Eds.), *The Eighteenth Mental measurements Yearbook* (713-715). Lincoln, NE: Buros Institute of Mental Measurements.
- Davis, A. S., & Finch, W. H. (2010). Review of Differential Ability Scales-Second Edition. In K. F. Geisinger, R. A. Spies, J. F. Carlson, & K. F. Geisinger (Eds.), *The Eighteenth Mental measurements Yearbook* (195-199). Lincoln, NE: Buros Institute of Mental Measurements.
- Year 2007**
- Davis, A. S., & Finch, W. H. (2007). Review of the BRIGANCE Diagnostic Inventory of Early Development--II. In K. F. Geisinger, R. A. Spies, J. F. Carlson, & B. S. Plake (Eds.), *17th Buros mental measurements yearbook* (pp. 157-161). Lincoln, NE: Buros Institute of Mental Measurements.
- Davis, A. S., & Finch, W. H. (2007). Review of The Rivermead Behavioural Memory Test—Extended Version. In K. F. Geisinger, R. A. Spies, J. F. Carlson, & B. S. Plake (Eds.), *17th Buros mental measurements yearbook* (pp. 722-725). Lincoln, NE: Buros Institute of Mental Measurements.

Year 2005

- Davis, A. S., & Finch, H. (2005). Review of Children's Color Trails Test. In B. S. Plake, J. C. Impara, & R. A. Spies (Eds.), *16th Buros Mental Measurement Yearbook*. Lincoln, NE: Buros Institute of Mental Measurements.
- Davis, A. S., & Finch, H. (2005). Review of Ruff Neurobehavioral Inventory. In B. S. Plake, J. C. Impara, & R. A. Spies (Eds.), *16th Buros Mental Measurement Yearbook*. Lincoln, NE: Buros Institute of Mental Measurements.

Nonrefereed publications

- Marchant, G. & Finch, W.H. (2018). Beating the Odds: Trees to Success in Different Countries. ERIC Database.
- Finch, H. (2000). Client Perceived Pitfalls in Statistical Consulting: An Ethnographic Study. *The Statistical Consultant*, 18(1).
- Finch, H. (1999). Client Expectations in a University Statistical Consulting Lab, *The Statistical Consultant*, 16(3).

Training Presentations

Year 2016

- Finch, W.H. & French, B.F. (2016). A Didactic Introduction to Latent Variable Modeling in R. Training Session at the annual meeting of the American Educational Research Association, Washington, D.C.

Year 2015

- French, B.F. & Finch, W.H. (2015). Latent Variable Modeling for Sports Psychologists. Training Session at the annual meeting of the Association for Sports Psychology, Portland, OR.
- French, B.F. & Finch, W.H. (2015). Introduction to Latent Variable Modeling. Training Session at the Universidad Autonoma De Madrid, Madrid, Spain.

Presentations at Professional Meetings

Year 2021

- Smith, K., Mangino, A.A., Finch, W.H. (2021). Prediction of psychological phenomena using Autoencoders. Paper presented at the annual meeting of the American Psychological Association, August.
- Finch, W.H. & French, B.F. (2021). Effect sizes for estimating differential item functioning influence at the test level. Paper presented at the annual meeting of the National Council on Measurement in Education, Baltimore, MD, June.
- Finch, W.H., Hernández Finch, M.E., Mytych, K., & Larsen, C. (2021). Impact of the Covid-19 Pandemic on Americans' Mental Health: A Textual Analysis of Interview Data. Paper presented at the annual meeting of the Association for Psychological Science, May.
- Finch, W.H. & French, B.F. (2021). Measurement invariance assessment using regularized estimators. Paper presented at the International Meeting of the Psychometric Society, July.
- Hernández Finch, M. E., Fletcher, K. L., & Finch, W. H. (2021). Benefits of shared book readings for dual-language learning mother-child dyads. To be presented at the 2021 APA Annual Convention (virtual) Division 15 (Educational Psychology).
- Hernández Finch, M. E., *Larsen, C. M., & Finch, W. H. (2021). Relationship of poverty to corporal punishment, restraint, and seclusion by state. To be presented at the 2021 APA Annual Convention (virtual) Division 16 (School Psychology).
- Mangino, A.A., Smith, K., & Finch, W.H. (2021). Modeling responsibly: Toward a fair, interpretable, and ethical machine learning for the social sciences. Paper presented at the American Psychological Association conference on Technology, Mind, and Society, November.
- Pscheid, K., Pierson, E.E., Finch, W.H., Hernandez Finch, M. (2022). Disproportional Impact of Community Factors on Adolescent TBI Educational Outcomes. Presentation at the National Association of School Psychologists. Boston, MA.

Year 2020

- Dale, B.A., Shellabarger, K.R., Finch, W.H. (2020). Comparison of verbal abilities for children with Autism Spectrum Disorder. Poster presented at the Conference of the American Academy of Pediatric Neuropsychology, Las Vegas, NV.
- Shellabarger, K.R., Dale, B.A., Finch, W.H., & Davis, A.S. (2020). WISC-V profiles of children with Autism Spectrum Disorder. Paper presented at the annual meeting of the Midwestern Psychological Association, April.
- Grzywana, J., Lee, T., Diaz, A., Simon-Dack, S., & Finch, W.H. (2020). Validation of emotionally driven variations of the N-Back task. Paper presented at the annual meeting of the Midwestern Psychological Association, April.
- Finch, W.H., Hernandez Finch, M.E., & French, B.F. (2020). Latent Dirichlet Analysis to Aid Equity in Identification for Gifted Education. Paper to be presented at the annual meeting of the National Council on Measurement in Education, San Francisco, April.
- Gross, D., Bettencourt, A., Singleton, D., & Finch, W.H. (2020). Measuring parent

- engagement in early learning in low-income populations. Paper presented at the annual principal investigator conference, Institute for Educational Science, Washington, D.C., January.
- Miller, J.E. & Finch, W.H. (2020). Comparison of Regularized Full and Limited Information Structural Equation Modeling. Paper to be presented at the annual meeting of the American Educational Research Association, San Francisco, April.
- Finch, W.H., Mangino, A., Smith, K., & Hernandez Finch, M.E. (2020). Using Generative Adversarial Models to Improve Identification of Those At-Risk for Suicide. Paper presented at the annual meeting of the American Psychological Association, August.
- Finch, W.H., Hazleton, A., & French, B. (2020). Psychometrics versus Psychometrics: The Accuracy of Measurement Invariance Assessment. Poster presented at the annual meeting of the American Psychological Association, August.
- Finch, W.H., Hernández Finch, M.E., & Hazlewood, A. (2020). Application of spatial models to educational phenomena. Paper presented at the Modern Modeling Methods Conference, June, Storrs, CT.
- Mangino, A. & Finch, W.H. (2020). A Methodological Comparison of Supervised Classifiers for Nested Data. Paper presented at the Modern Modeling Methods Conference, June, Storrs, CT.
- Hernández Finch, M. E., Dale B. A.,** Wildrick, A. A.,* Finch, W. H. (2020). Culturally sensitive gifted screening: Parental measure validity assessment. Accepted for presentation at the annual convention of the American Psychological Association, Washington, DC/Virtual.
- Satmare, G. A.,* Hernández Finch, M. E., & Finch, W. H. (2020). Suicidality among racially ethnically diverse sexual minority adolescents. Presented at the annual convention of the American Psychological Association, Washington, DC/Virtual.

Year 2019

- Finch, W.H. & Hernández Finch, M.E. (2019). A Comparison of Traditional Statistical Modeling and Social Impact Measurement. Conference on Building Sustainable Peace, South Bend, IN, November.
- McIntosh, C., Brelage, P., Hernandez Finch, M.E., Thomas, C., Hulse, A., & Finch, W.H. (2019). Evaluating Self-Efficacy and Personality Differences of Nursing Students in ASD Clinical Simulations. Paper presented at the annual meeting of the National Association of School Nursing.
- Thomas, J. M., Rubenstein, L. D., Finch, W. H., Speirs Neumeister, K. L., & Hernández Finch, M. E. (2019, May). Creativity positively correlates with academic achievement but not academic growth. Paper accepted for the American Psychological Society (APS) Conference, Washington, D.C.
- Ballenger, E., Rubenstein, L. D., Finch, W. H., & Hernández-Finch, M. E. (2019, May). Using

- sentiment analysis to unlock the power of open-ended responses. Paper accepted for the American Psychological Society (APS) Conference, Washington, D.C.
- Finch, W.H., French, B.F., & Hernández Finch, M.E. (2019). Comparison of Multidimensional Models for Extreme Response Styles. Presentation at the annual meeting of the National Council for Measurement on Education. Toronto, CA, April.
- Smith, V.A., Hernández Finch, M.E., & Finch, W.H. (2019). Intersectional Examination of Teachers' Gifted Referral Decision Making for Diverse Students. Presentation at the meeting of the National Association of School Psychologists. Atlanta, GA, February.
- Finch, W.H., Hernández Finch, M.E., & Hazelwood, A. (2019). Applied Data Analysis for Single Subject Designs using Excel. Presentation at the meeting of the National Association of School Psychologists. Atlanta, GA, February.
- Ridgley, L. M., Rubenstein, L. D., & Finch, W. H. (2019). Better than apples to oranges: Using SIGS to directly compare student and teacher creativity perceptions. Toronto, CA, April.
- Mangino, A. A., Finch, W. H., Bolin, J. H., Pierson, E. E. (2019). Applied Supervised Classification of Highly Unequal Group Sizes in Suicide Data. Poster presented at American Psychological Association Annual Convention, Chicago, Illinois.
- Miller, J.E., Finch, W.H. & Ballenger, E. (2019, August) An examination of the impact of incorrect informative priors on parameter estimation for structural equation models. Poster presented at American Psychological Association Annual Convention, Chicago, Illinois.
- Finch, W.H. & Hernandez Finch, M.E. (2019). Modeling of Self-Report Behavior Data using the Generalized Covariates in a Uniform and Shifted Binomial Mixture Model. Poster presented at American Psychological Association Annual Convention, Chicago, Illinois.
- Moore, B.M., Davis, A.S., Finch, W.H., & Sander, J. (2019). Factor analysis of the MACI with a court-ordered adolescent sample. Paper presented at the annual meeting of American Association of Pediatric Neuropsychology, Las Vegas, NV, April.
- Moore, B.M., Davis, A.S., Sander, J., & Finch, W.H. (2019). The MMPI-A and MACI: Complimentary or Redundant Measures? Paper presented at the annual meeting of American Association of Pediatric Neuropsychology, Las Vegas, NV, April.
- Moore, B. M., Davis, A. S., Finch, W. H., & Sander, J. (2019). Factor Analysis of the MMPI-A with a Court-Ordered Adolescent Sample. Paper presented at the Annual Conference of the American Academy of Pediatric Neuropsychology.

Year 2018

- Mullins, C., Tonarelli, S., Finch, W.H., Davis, A.S., Sandoval, H., & Kaufman, N.K. (2018). History of Mild Traumatic Brain Injury Predicts Trying Substances in Clinical Youth Sample. Paper presented at MCA, May.
- Finch, W.H. & Edwards, J.E. (2018). Missing Data Imputation Methods for Multilevel Item Response Theory: A Monte Carlo Simulation Study. Paper presented at the annual meeting of the International Psychometric Society, New York, July.

- Finch, W.H. & French, B.F. (2018). An Equivalence Test for Assessing Factor Invariance with Categorical Indicator Variables. Paper presented at the annual meeting of the International Psychometric Society, New York, July.
- Finch, W.H. & Hernandez Finch, M.E. (2018). Modeling of Self-Report Behavior Data using the Generalized Covariates in a Uniform and Shifted Binomial Mixture Model. Paper presented at the Modern Modeling Methods Conference, Storrs, CT May.
- Finch, W.H., Hernandez Finch, M.E., Walls, J., & Hall, S. (2018). Using Text Mining to Identify Themes in Focus Group Data. Paper presented at the Modern Modeling Methods Conference, Storrs, CT May.
- Wang, L. & Finch, W.H. (2018). Motivation Variables Mediate the Relationship between Socioeconomic Status and Academic Achievement. Paper presented at the annual meeting of the Association of Psychological Science, May.
- Drapeau, C.W., Hernandez Finch, M.E., Finch, W.H., & Nadroff, M. (2018). Sleep Duration and Suicide Risk in Adolescents. Paper presented at the annual meeting of the National Association of School Psychology.
- Hulse, A. R., Hernández Finch, M. E., Finch, W. H., Deal, W. P., Young-Jones, A. D. (2018, February). Empathic vs educational training interventions on the ABS. Poster session to be presented at the National Association of School Psychologists Annual Convention, 2018, Chicago, Illinois.
- Hulse, A. R., Hernández Finch, M. E., Finch, W. H., Deal, W. P., Young-Jones, A. D. (2018, February). Impact of close relationships on beliefs about individuals with ASD. Poster session to be presented at the National Association of School Psychologists Annual Convention, 2018, Chicago, Illinois.
- Cintron, D., Montross-Moorehead, B., & Finch, W.H. (2018). Proof of Concept: Topic Modeling as a Method for Focusing an Evaluation Design. Paper to be presented at the annual meeting of the American Educational Research Association, New York, April.
- Mucherah, W., Finch, W.H., & White, T. (2018). The Effects of School Climate, Teacher Involvement, and Friends on Adolescents' Perceptions of Bullying in High School in Kenya. Paper presented at the annual meeting of the Society for Research of Adolescence, April, Minneapolis, MN.
- Elam, N. & Finch, W.H. (2018). Examining the Relationship Between Teacher Performance Ratings and District in Ohio. Annual meeting of the Midwestern Educational Research Association, Cincinnati, OH, October.

Year 2017

- Finch, W.H., Hernandez Finch, M.E., & McIntosh, C. (2017). Using Text Mining to Characterize School Personnel Attitudes towards School Policy on Student Self-Injurious Behavior. Paper presented at the Modern Modeling Methods Conference, Storrs, CT, May.
- Finch, W.H., Marchant, G.J., & Hazleton, A. (2017). Use of Item Response Theory to Understand Congressional Voting Behavior. Paper presented at the Modern Modeling Methods Conference, Storrs, CT, May.
- Mucherah, W., Finch, W.H., White, T.A., Thomas, K.J., & Wilson, A. (2017).

- Exploring the Relationship Between School Climate and Bullying: A Look into Three Different High Schools in Kenya. Paper presented at the annual meeting of the Association of Psychological Science, Boston, MA, May.
- Shim, S. & Finch, W.H. (2017). Teacher Need Satisfaction and Frustration Predict Job Satisfaction and Flow Experience. Paper presented at the annual meeting of the American Psychological Association, August, Washington, D.C.
- Shim, S. & Finch, W.H. (2017). Home-School Dissonance Among College Students: An Insight From Regression Mixture Modeling. Paper presented at the annual meeting of the American Psychological Association, August, Washington, D.C.
- Callan, G., Marchant, G., Finch, W.H., & Flegge, L. (2017). How Strategies Relate to SES, Gender, and Achievement. Paper presented at the annual meeting of the National Association of School Psychologists, San Antonio, TX, February.
- Marchant, G. & Finch, W.H. (2017). Beating the Odds: Trees to Success in Different Countries. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX, April.
- Finch, W.H. & Hernandez Finch, M.E. (2017). Multivariate Regression with Small Samples: A Comparison of Estimation Methods. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX, April.
- French, W.H., Montesinos, M.D.H., & Finch, W.H. (2017). Differential Item Functioning Effect Size Use for Validity Information. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April.
- Finch, W.H., Edwards, J.M., French, B.F., & Strobl, C. (2017). Performance of Raschtree for Uniform DIF Detection with Continuous Covariates. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX, April.
- Moss, L.E., Davis, A.S., Finch, W.H., Hernandez Finch, M.E., Perrone-McGovern, K.M., & Holtgraves, T. (2017). The Impact of Culture and Language on Executive Functioning in Bilingual Adults: Implications for Pediatric. Poster presented at the Annual Conference of the American Academy of Pediatric Neuropsychology, Las Vegas, NV.

Year 2016

- The Aging Athlete: Cardiovascular Fitness with Exercise Intensity. Paper presented at the annual meeting of the American Physiological Association.
- The Aging Athlete: General Health and Exercise Profile. Paper presented at the annual meeting of the American Physiological Association.
- French, B.F., Finch, W.H., & Hernandez Finch, M.E. (2016). Comparison of GSCA and Maximum-Likelihood for Small Sample Invariance Assessment. Paper presented at the annual meeting of the Psychometric Society, Asheville, NC, July.
- Finch, W.H. & Shim, S. (2016). Estimating Relationships in Change for Latent Variables using Difference Factors. Paper presented at the annual meeting of the Psychometric Society, Asheville, NC, July.

- Rubenstein, L., Finch, W.H., Pierson, E., & Drapeau, C. (2016). Using the Person-Environment Fit Framework to Explore Academic Challenge. Paper presented at the annual meeting of the National Association for Gifted Children, Orlando, FL, November.
- Hitchcock, J.H., Newman, D., Walker, D., Smith, T., Finch, W.H., & Brooks, G. (2016). What if Null Hypothesis Significance Tests were Banned? An Interactive Discussion of Implications for General Linear Modeling. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C., April.
- Smith, V.A., Hernandez Finch, M.E., & Finch, W.H. (2016). Exploring the Relationship between Cognitive Abilities and Development of Reality Perceptions in Preschool Children. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, April.
- Hernandez Finch, M.E., Finch, W.H., McIntosh, D.E., Hall, J.D., Harris, N., & Glass, M.I. (2016). Relationships Between Executive Functioning and Personality in Adults with ASD. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, April.
- Trinkle, J., Davis, A.S., Finch, W.H., Gaither, G., Bernat, D.J., & Fillmore, M. (2016). Predicting High-Stakes State Test Results with CHC Factors. Poster presented at the Annual Conference of the American Academy of Pediatric Neuropsychology, Las Vegas, NV, April.
- Allen, R., Mion, A.M., Davis, A.S., Finch, W.H., Bowman, S., & Bernat, D.J. (2016). The Relationship between Executive Functioning, Intelligence, Stress, and Life Satisfaction. Poster presented at the Annual Conference of the American Academy of Pediatric Neuropsychology, Las Vegas, NV, April.
- Martynowicz, M., Cassady, J.C., & Finch, W.H. (2016). Curvilinear Relationships among Test Anxiety, Motivation, and Self-Regulation: Evidence for a Control Theory. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, April.
- Callan, G., Finch, W.H., & Marchant, G.J. (2016). Relationships Between Metacognitive Strategies and Academic Achievement: A Mixture Mediation Model. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, August.
- Reed, A., Shim, S. & Finch, W.H. (2016). Changes in Classroom Environment and Student School Adjustment: Self-Determination Theory Perspective. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, August.
- Thomas, C., Finch, W.H., & Cassady, J.C. (2016). Using Latent Class and Cluster Analysis to Determine Cutscores for the Cognitive Test Anxiety Scale-Revised. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, April.
- Hernandez Finch, M.E., McIntosh, D.E., Finch, W.H., Freeman Floyd, E., & Cowan, K.B. (2016). Relationship of Executive Functioning and Memory to Autism Symptomatology and Adaptive Functioning. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, August.
- Hernandez Finch, M.E., McIntosh, C., Finch, W.H., Wilmoth, C.E., Matteson, S.D., &

- Satmare, G.S. (2016). School Support Personnel Roles, Collaboration, and Efficacy when Assisting Non-Suicidal Self-Injuries. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, August.
- Drapeau, C.W., Pierson, E.E., Finch, W.H., & Davis, A.S. (2016). Comparing Two Models of Suicide Ideation: Psychological Pain and the Interpersonal-Psychological Theory of Suicidal Behavior. Paper presented at the annual meeting of the American Association of Suicidology, Chicago, IL, March.
- Finch, W.H. (2016). Comparison of Multivariate Means across Groups with Ordinal Dependent Variables: A Monte Carlo Simulation Study. Paper presented at the annual meeting of the American Psychological Association, Denver, CO, August.
- Finch, W.H., Callan, G., & Marchant, G.J. (2016). The Mediating Effects of Metacognitive and Learning Strategies on Relationships between SES and Achievement. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, April.
- Finch, W.H., Hernandez Finch, M.E., French, B.F., & McIntosh, D.E. (2016). Methods for the Comparison of DIF across Assessments. Paper presented at the Third International Conference of the Center for Culturally Responsive Evaluation and Assessment (CREA, Chicago, IL, April.
- Finch, W.H. (2016). Multilevel Modeling in the Presence of Outliers: A Comparison of Robust Estimation Methods. Paper presented at the annual meeting of the Association for Psychological Science, Chicago, IL, May.
- Finch, W.H. & French, B.F. (2016). A Comparison of Estimation Techniques for IRT Models with Small Samples. Paper presented at the annual meeting of the National Council for Measurement in Education, Washington, D.C.
- Rubenstein, L.M., Finch, W.H., Pierson, E.E., & Drapeau, C.W. (2016). Conditional Effects of Need for Cognition on College Students. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Edwards, J.M. & Finch, W.H. (2016). Methods for DIF Detection based on Multivariate Outlier Detection. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Hernandez Finch, M.E. & Finch, W.H. (2016). Ethnic Difference in the Impact of Special Education Placement on Academic Growth Trajectories. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Finch, W.H. & Hernandez Finch, M.E. (2016). A Simulation Study Evaluating the Generalized Additive Model for Assessing Intervention Effects with Small Samples. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Davis, A. S., Finch, W. H., Mion, A. M., Moore, B. M., Fogle, K. L., Miller, G. E., Pierson, E. E., & Cassady, J. (to be presented February, 2016). Exploring the Factor Structure of the PAI with the CTAR. Poster to be presented at the Annual Convention of the National Association of School Psychologists, New Orleans, Louisiana.

Year 2015

- Edwards, J.M. & Finch, W.H. (2015). Assessment of the Multivariate Outlier Approach

- for Differential Item Functioning Detection: A Monte Carlo Simulation Study. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL, April.
- Finch, W.H. & Edwards, J.M. (2015). Item Response Theory Parameter Estimation in the Presence of a Nonnormal Latent Trait. Paper presented at the annual meeting of the Association for Psychological Science, May, New York, NY.
- Finch, W.H., French, B.F., Hernandez Finch, M.E., & McIntosh, D.E. (2015). Fitting Exploratory Factor Analysis Models with High Dimensional Psychological Data. Paper presented at the annual meeting of the American Psychological Association, August, Toronto, ON, CA.
- Moore, B., Davis, A., Finch, H., Sander, J.B., & DeBoth, K. (2015). Boosted Tree Analysis Differentiating Conduct Disorder and ADHD Using the MMPI-A. Paper presented at the annual meeting of the American Psychological Association, August, Toronto, ON, CA.
- DeBoth, K., Davis, A., Finch, H., Sander, J.B., & Moore, B. (2015). Boosted Tree Analysis Differentiating Conduct Disorder and Attention Deficit Hyperactivity Disorder using the MACI. Paper presented at the annual meeting of the American Psychological Association, August, Toronto, ON, CA.
- Hernandez Finch, M.E., Cook, A., Finch, W.H., Rice, V., & Pierson, E.E. (2015). WPPSI-IV General Ability Index Criterion Validity for Preschool Gifted Screening. Paper presented at the annual meeting of the American Psychological Association, August, Toronto, ON, CA.
- Smith, V., Hernandez Finch, M.E., Finch, W.H., & Smith, V. (2015). Looking back: A meta-analytic review of gifted personality. Paper presented at the annual meeting of the American Psychological Association, August, Toronto, ON, CA.
- Edwards, J.E. & Finch, W.H. (2015). Comparison of Advanced Methods for Data Imputation in the Context of Item Response Theory: A Monte Carlo Study. Paper presented at the Modern Modeling Methods Conference, May, Storrs, CT.
- Finch, W.H., Hernandez Finch, M.E., & French, B.F. (2015). Methods for the Comparison of DIF Across Assessments. Paper presented at the Modern Modeling Methods Conference, May, Storrs, CT.
- Finch, W.H., Hernandez Finch, M.E., & Singh, M. (2015). Data Imputation Algorithms for Mixed Variable Types: An Application in Large Scale Educational Assessment. Paper presented at the annual meeting of the American Educational Research Association, April, Chicago, IL.
- Hernandez Finch, M.E., Drapeau, C., & Finch, W.H. (2015). Enhancing Pre-Service Educators Suicide Prevention Gatekeeper Training with Culturally Responsive Motivational Interviewing Foundational Skills. Paper presented at the annual meeting of the American Educational Research Association, April, Chicago, IL.
- Finch, W.H., French, B.F., & Hernandez Finch, M.E. (2015). Quantifying Item Invariance for the Selection of the Least Biased Assessment. Paper presented at the annual meeting of the American Educational Research Association, April, Chicago, IL.
- French, B.F. & Finch, W.H. (2015). Quantifying the Influence of Partial Factorial Invariance on Reliability: A Proposed Effect Size. Paper presented at the annual meeting of the American Educational Research Association, April,

Chicago, IL.

- Finch, W.H. & French, B.F. (2015). Logistic Regression and Model Based Recursive Partitioning for Item Evaluation. Paper presented at the annual meeting of the American Educational Research Association, April, Chicago, IL.
- Hernandez Finch, M.E. & Finch, W.H. (2015). Using the New General Ability Index for Preschool Gifted Screening. Paper presented at the annual meeting of the American Educational Research Association, April, Chicago, IL.

Year 2014

- Ozemek, C., Whaley, M.H., Finch, W.H., & Kaminsky, L.A. (2014). Cardiorespiratory Fitness Affects the Rate of Decline of Maximal Heart Rate with Age. Paper presented at the annual meeting of the American Heart Association, November.
- Davis, A.S., Finch, W.H., Moore, B.M., Fogle, K.L., & Gelder, B. (2014). The Factor Structure of the WISC-IV for Children with FASD. Paper presented at the annual meeting of the American Academy of Pediatric Neuropsychology, Chicago, IL, September.
- Murach, K., Trappe, S., Raue, C.R., Minchev, K., & Finch, W.H. (2014). Number of Individual Muscle Fibers Suitable for Determining Fiber Type Distribution in Highly Trained Athletes. Presented at the American Council of Sports Medicine Conference on Integrative Physiology of Exercise, Miami Beach, FL, September.
- Finch, W.H. & French, B.F. (2014). Effect size estimator for invariance assessment in confirmatory factor analysis. Paper presented at the International Meeting of the Psychometric Society, Madison, WI, July.
- Jeffers, H.M., Finch, W.H., & French, B.F. (2014). The Raschtree approach for assessing uniform differential item functioning: A Monte Carlo Study. Paper presented at the International Meeting of the Psychometric Society, Madison, WI, July.
- Cassady, J.C., Finch, W.H., Heller, M.L., Blankenship, M.W., & Jones, J. (2014). Learning and motivation profiles that differentiate among “types” of test anxious learners. Poster presentation at Association of Psychological Science Annual Meeting, San Francisco, CA.
- Finch, W.H. & French, B.F. (2014). A Monte Carlo investigation into the performance of Structural Equation Modeling Trees. Paper presented at the Joint Statistical Meetings, Boston, MA, August.
- French, B. F., & Finch, W. H. (2014, April). *Quantifying the influence of partial factorial invariance on reliability: A proposed effect size*. Paper presented at the American Educational Research Association conference, Philadelphia, PA.
- Cassady, J.C., Heller, M.L., Finch, W.H., & Jones, J. (2014). Learning and Motivation Profiles that Differentiate Among Types of Test Anxious Learners. Presentation at the annual meeting of the Association for Psychological Science, San Francisco, May.
- Edwards, J.M., Finch, W.H., & Bolin, J.E. (2014). A Monte Carlo Comparison of Clustering Accuracy: A Comparison of Two Clustering Techniques. Presentation at the annual meeting of the Association for Psychological Science. San Francisco, May.
- Drapeau, C.W., Pierson, E.E., & Finch, W.H. (2014). Classifying Adolescent Suicide

- Attempters Using the Youth Risk Behavior Survey. Presentation at the 47th Annual Conference of the American Association of Suicidology, Los Angeles, CA, April.
- Davis, A. S., Finch, W. H., Miller, G., Williams, R. N., Gupta, A. J. & Randolph, C. (2014). Identification of multiple sclerosis via a boosted trees methodology. Presentation at the annual conference of the American Psychological Association, Washington, D.C., August.
- Sander, J.B, Bishop, J.A., Deboth, K., Klauser, B. & Finch, W.H, (2014). Adolescent Residential Treatment: Subgroups, Patterns of Cognitive Functioning, and Implications. Paper presented at the annual meeting of the American Psychological Association, Washington, D.C.
- Vazquez, J., French, B.F., & Finch, W.H. (2014). Predicting Differential Item functioning on Mathematics Items using multilevel SIBTEST. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA, April.
- Sander, J.B., Bishop, J.A., Klauser, B., Grelle, J., Finch, W.H., & Peak, L. (2014). CHC Cognitive Profiles and Academic-Behavior Patterns in Juvenile Justice. Paper presented at the National meeting of the National Association of School Psychologists. Washington, D.C., February.
- Finch, W.H. (2014). Modeling Nonlinear Structural Equation Models: A comparison of the 2-stage Generalized Additive Model and the Finite Mixture Model. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA, April.
- Finch, W.H. & French, B.F. (2014). Measurement invariance assessment with a Bi-factor model. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA, April.
- French, B.F. & Finch, W.H. (2014). Crossing SIBTEST in a Multilevel Data Environment. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA, April.
- Finch, W.H., Hernandez Finch, M.E., & French, B.F. (2014). Recursive Partitioning to Identify Potential Causes of Differential Item Functioning. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA, April.
- Cappaert, K. & Finch, W.H. (2014). Simultaneous Uniform and Non-Uniform DBF Detection: A MIMIC Model Approach. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA, April.
- Hernandez Finch, M.E., Singh, M., & Finch, W.H. (2014). Relationship between Self-Efficacy, Motivation, and Choosing College, Moderated by Income in a Diverse Sample. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA, April.
- Marchant, G. & Finch, W.H. (2014). Does a Rising Tide Lift All Boats? International Relative and Absolute SES and Achievement. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA, April.

Year 2013

- Davis, A. S., Finch, W. H., Piehl, J. J., Moss, L. E., Nogin, R. M. & Dean, R. S. (October, 2013). Differentiation of Children with and without ADHD Using the DWSMB via A Boosted Tree Methodology. Poster presented at the 33rd Annual Convention of the National Academy of Neuropsychology, San Diego, CA.
- Finch, W.H. & French, B.F. (2013). Model Invariance Testing under Different Levels of Invariance. Paper presented at the Modern Modeling Conference, Storrs, CT, May.
- Finch, W.H. & Hernandez Finch, M.E. (2013). Data analysis strategies for high dimensional social science data: What to do when there are more variables than subjects. Paper presented at the Modern Modeling Conference, Storrs, CT, May.
- French, B.F. & Finch, W.H. (2013). Multilevel Generalized Mantel-Haenszel For Differential Item Functioning Detection. 12th European Conference on Psychological Assessment, San Sebastian, Spain.
- French, B.F., Finch, W.H., & Ulrich, S. (2013). Detection of Sex Differential Item Functioning in the Inventory of Early Development. Paper proposal accepted to be presented at the 2013 annual convention of the American Psychological Association, Honolulu, HI.
- Marchant, G.J., Finch, W.H., & German, R. (2013). Metacognition, Strategies, Achievement, and Demographics: Relationships Across Countries. Paper proposal accepted to be presented at the 2013 annual convention of the American Psychological Association, Honolulu, HI.
- Shim, S. & Finch, W.H. (2013). Academic and Social Achievement Goals and Early Adolescents' Adjustment: A Latent Class Approach. Paper proposal accepted to be presented at the 2013 annual convention of the American Psychological Association, Honolulu, HI.
- Finch, M.H., Finch, W.H., Singh, M., & McIntosh, D.E. (2013). Effect of parent education level on young children's item-level performance on the Woodcock-Johnson-III-NU. Paper proposal accepted to be presented at the 2013 annual convention of the American Psychological Association, Honolulu, HI.
- Finch, W.H., French, B.F., & Jeffers, H.M. (2013). Assessment of differential item functioning of a reading interest inventory using multilevel SIBTEST. Paper proposal accepted to be presented at the 2013 annual convention of the American Psychological Association, Honolulu, HI.
- Chang, M., Finch, W.H., Paulson, S. E., McIntosh, D. E., & Rothlisberg, B. A. (2013, February). *Joint Construct Validity of Cognitive Ability Measures with Preschool Children*. Paper proposal accepted to be presented at the 2013 Annual Convention of the National Association of School Psychologists, Seattle, WA.
- Koloi, S., Marchant, G., & Finch, W.H. (2013). Canonical Relationship between Teachers Perceived Skill and Use of Classroom Assessments Practices. Paper proposal accepted to be presented at the 2013 meeting of the Midwestern Psychological Association, Chicago, IL.
- Koloi, S., Marchant, G., & Finch, W.H. (2013). Detecting Response Patterns on Teachers Perceived Skills about Classroom Assessment Practices Using IRT Models. Paper proposal accepted to be presented at the 2013 meeting of the

- Midwestern Psychological Association, Chicago, IL.
- Marchant, G. & Finch, W.H. (2013). Student, School, and Country: The Relationship of SES and Inequality to Achievement. Paper proposal accepted to be presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Holden, J.E. & Finch, W.H. (2013). Supervised Classification in the Presence of Misclassified Training Data: A Monte Carlo Simulation Study. Paper proposal accepted to be presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Finch, W.H. & French, B.F. (2013). Transforming SIBTEST to Account for Multilevel Data Structures. Paper proposal accepted to be presented at the 2013 meeting of the American Educational Research Association, San Francisco, CA
- Finch, W.H. & Hernandez Finch, M.E. (2013). Investigating specific learning disability and testing accommodations based differential item functioning analysis using a multilevel multidimensional mixture item response theory model. Paper proposal accepted to be presented at the annual meeting of the National Council for Measurement in Education, San Francisco, CA.
- French, B.F., Finch, W.H., Randall, B., Gotch, C., & Hand, B. (2013). Measurement Invariance Techniques to Enhance Measurement Sensitivity. Paper proposal accepted to be presented at the annual meeting of the National Council for Measurement in Education, San Francisco, CA.

Year 2012

- McIntosh, C.E., McIntosh, D.E., Pierson, E.E., Campbell, E. H. Finch, & Ward, K.. (2012). Levels of ADOS Performance From a School Based Sample. National Association of School Psychologists Annual Convention. Philadelphia, PA, February.
- Finch, W.H. & French, B.F. (2012). Latent variable model parameter invariance testing under a variety of invariance conditions: A Monte Carlo study. Presented at the annual meeting of the International Meeting of the Psychometric Society, Lincoln NE, July..
- Pierson, E.E., Finch, W.H., Connolly, S.C., & McCormick, C. (2012). The identification and measurement of impression management by adolescent responders on the Youth Risk Behavior Survey. Presented at the annual meeting of the National Association of School Psychology, Philadelphia, PA, February.
- Malm, S.P., Finch, W.H., Lutz, J., & Dean, R.S. (2012). Applying the Generalized Graded Unfolding Model to the Mood Factor of the Neuropsychological Symptom Scale. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Singh, M., Hernandez Finch, M.E., & Finch, W.H. Psychological Predictors of Postsecondary Enrollment for Diverse High School Students. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Jeffers, H.M. & Finch, W.H. Multidimensional Investigation of the Link between Parenting Style and Attachment. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.

- Drapeau, C.W., Pierson, E.E., & Finch, W.H. (2012). Protective factors preventing at-risk adolescent students from attempting suicide. Paper presented at the annual meeting of the American Association of Suicidology, April.
- Finch, W.H. & Hernandez Finch, M.E. (2012). Differential item functioning analysis using a multilevel mixture model. Paper presented at the Modern Modeling Conference, Storrs, CT, May.
- Finch, W.H. & French, B.F. (2012). Modeling of nonrecursive structural equation models with categorical indicators. Paper presented at the Modern Modeling Conference, Storrs, CT, May.
- Finch, W.H., Holden, J.E., Kelly, K., & Starling, J.M. (2012). Classification in the Presence of Heterogeneous Groups: A Monte Carlo Comparison of Several Statistical Methods. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, April.
- Hernandez Finch, M.E., Dale, B.A., Finch, W.H., McIntosh, D.E., & Rothlisberg, B.A. (2012). Profile Analysis of the Woodcock Johnson III Tests of Cognitive Abilities With Diverse Preschoolers. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, April.
- French, B.F. & Finch, W.H. (2012). Extensions of the Mantel-Haenszel test for DIF (differential item functioning) detection. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, April.
- Finch, W.H. & Marchant, G.J. (2012). School spirit: Clustering schools and students in the 20 richest countries. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, April.
- Finch, W.H. & French, B.F. (2012). Bayesian modeling of differential item functioning: Type I error and power rates in the presence of nonnormal ability distributions, impact, and anchor set contamination. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, April.

Year 2011

- Finch, W.H. & French, B.F. (2011). Parameter estimation for Item Response Mixture Models. Paper presented at the Joint Statistical Meetings, Miami, FL, August.
- French, B.F. & Finch, W.H. (2011). The use of omnibus SIBTEST for assessing both types of DIF. Paper presented at the annual meeting of the National Council for Measurement in Education, New Orleans, LA, April.
- Finch, W.H. & French, B.F. (2011). The impact of group pseudo-guessing parameter differences on the detection of uniform and nonuniform DIF. Paper to be presented at the annual meeting of the National Council for Measurement in Education, New Orleans, LA, April.
- Finch, W.H. & Pierson, E.E. (2011). A mixture IRT analysis of risky youth behavior. Paper to be presented at the Modern Modeling Methods Conference, Storrs, CT, May.
- Chang, M., Finch, W.H. & Davis, A.S. (2011). Predicting intelligence using alternative models to regression. Paper to be presented at the annual meeting of the American Educational Research Association, New Orleans, LA, April.
- Finch, W.H. & French, B.F. (2011). Multilevel latent class analysis: Parametric and nonparametric models. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA, April.

- Holden, J.E. & Finch, W.H. (2011). A comparison of alternative methods for prediction of categorical data: A Monte Carlo simulation study. Paper to be presented at the annual meeting of the American Educational Research Association, New Orleans, LA, April.
- Koloi, S., Finch, W.H., & Mucherah, W. (2011). Differential item functioning of the SDQIII. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Pierson, E.E. & Finch, W.H. (2011). The prediction of adolescents at-risk for attempting suicide using Tree based statistical models. Paper presented at the annual meeting of the American Psychological Association, San Diego, CA, August.
- Finch, M.E., Finch, W.H., & Davis, A.S. (2011). Sensory-motor functioning and reading ability predictors in a preschool sample. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Koloi, S., Cassady, J., & Finch, W.H. (2011). Overcoming the Methods Effect in Assessing Cognitive Test Anxiety. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Finch, W.H., Holden, J.E., & Ardaye, C. An investigation of the relationship between mate selection and cultural values. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- McCormick, C., Pierson, E.E., Connolly, S.C., & Finch, W.H. (2011). Predicting Romeo but not Juliet: Suicide prediction models work better for males. Paper presented at the annual meeting of the Association for Psychological Science, Washington, DC, May.
- McConnell, J.M., Dixon, D.N., & Finch, W.H. (2011). Confirming a Model of Self-Forgiveness. Paper presented at the annual meeting of the Great Lakes Psychological Association, Bloomington, IN, April.
- McIntosh, C.E., McIntosh, D.E., Pierson, E.E., Campbell, E.M., Finch, W.H. & Morgan, K. (2011). Comparison of BASC-2 Ratings of Children With Autism, Asperger's, and Pervasive Developmental Disorder-NOS. Annual meeting of the American Psychological Association, Washington, D.C., August.
- Pierson, E.E. & Finch, W.H. (2011). The Prediction of Adolescents At-Risk for Attempting Suicide Using Tree-Based Statistical Models. Annual meeting of the American Psychological Association, Washington, D.C., August.

Year 2010

- Finch, W.H. & French, B.F. (2010). Multilevel Mantel-Haenszel: Accounting for multilevel data in DIF detection. Paper presented at the annual meeting of the Psychometric Society, Athens, GA, July.
- Finch, W.H. & French, B.F. (2010). A Monte Carlo Comparison of Robust MANOVA Test Statistics. Paper presented at the annual Joint Statistical Meetings, Vancouver, BC, August.
- Finch, W.H. & French, B.F. (2010). A Comparison of Methods for Estimating Confidence Intervals for Eta and Omega Squared Effect Sizes. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO, April.

French, B.F. & Finch, W.H. (2010). Latent Growth Curve Models: A Comparison of Missing Data Techniques. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO, April.

Mucherah, W.W., Dixon, F., & Finch, W.H. (2010). Self-concept and academic performance in gifted high school students in Kenya: A cluster analysis. Paper presented at the annual meeting of the National Association for Gifted Children, Atlanta, GA, November 11-14.

Year 2009

Davis, A.S., Finch, W.H., Chang, M., Rothlisberg, B.A., McIntosh, D.E., & Paulson, S.E. (2009). Demographic Variables, Premorbid Functioning, and CHC Ability on the Woodcock-Johnson Tests of Cognitive Abilities for Preschoolers. Paper presented at the 29th Annual Meeting of NAN in New Orleans, LA, November.

Davis, A. S., Finch, W.H., Skierkiewicz, A.L., Rothlisberg, B.A. & McIntosh, D.E. (2009). Using Demographic Variables to Estimate Premorbid Functioning in Preschool Children using the Stanford-Binet-Fifth Edition. Paper presented at the 29th Annual Meeting of NAN in New Orleans, LA, November.

Bell, R. Cox, K., & Finch, W.H. (2009). Pre-putt routines and putting outcomes of collegiate golfers. Poster presented at the annual meeting of the Association of Applied Sport Psychology. Salt Lake City, UT, August.

Finch, W.H. (2009). On the need for multilevel Item Response Theory Models. Paper presented at the annual meeting of the American Psychological Association, Toronto, ON, August.

Finch, W.H. (2009). Using podcasts for instruction in an introductory statistics course. Poster presented at the bi-annual meeting of the United States Conference on Teaching Statistics, Columbus, OH, June.

Bronk, K.C. & Finch, W.H. (2009). Purpose, hope, and life satisfaction among adolescents. Poster presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May

French, B.F., Randel, B. & Finch, H. (2009). Measurement Sensitivity for Randomized Control Trials: When Differential Item Functioning is a Good Thing. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA, April.

French, B.F. & Finch, H. (2009). Hierarchical logistic regression: Accounting for multilevel data in DIF detection. Paper presented at the annual meeting of the National Council for Measurement in Education, San Diego, CA, April.

Finch, H. & French, B.F. (2009). Estimation of MIMIC model parameters with multilevel data. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA, April.

Slonaker, A. R., Mucherah, W. M., & Finch, W. H. (2009). School Psychologists' Training in Neuropsychological Assessment. Poster presented at the Annual meeting of the International Neuropsychological Society, Atlanta, GA, February.

Year 2008

Williams, K., Huffman, L. & Finch, H. (2008). Investigating the influence of parental factors on the postsecondary educational attainment aspirations of rural middle

- and high school students. Paper presented at the Hawaii International Conference on Education. Honolulu, HI, January.
- French, B.F. & Finch, W.H. (2008). When Under the Influence of Non-invariant Factor Loadings, Does Computation Method of the Factor Score Matter? Paper presented at the Annual meeting of the American Educational Research Association. New York, NY, March.
- Finch, W.H. & French, B.F. (2008). Using a Hierarchical MIMIC Model for Uniform DIF Assessment in the Presence of Nested Data. Paper presented at the Annual meeting of the National Council for Measurement in Education. New York, NY, March.
- French, B.F. & Finch, W.H. (2008). Model Misspecification and Invariance Testing Via Confirmatory Factor Analytic Procedures. Paper presented at the Annual meeting of the American Educational Research Association. New York, NY, March.
- Finch, W.H., Lapsley, D.K. & Baker, M.E. (2008). Predictors of Student Mobility and Retention in Indiana Charter Schools: 2003 to 2006. Paper presented at the Annual meeting of the American Educational Research Association. New York, NY, March.
- Jameson, M.E., & Finch, W.H. (2008). Latent Markov chain analysis of the development of item responses in an authentic mathematics assessment. Poster presented at the Annual meeting of the Association of Psychological Science. Chicago, IL, May.
- Finch, W.H., French, B.F., & Trotter, J.S. (2008). Missing data and dimensionality assessment for item response data: A Monte Carlo comparison of methods. Paper presented at the Fordham Council on Applied Psychometrics. Fordham University, New York, NY, June.
- Finch, W.H. & French, B.F. (2008). Testing the null hypothesis of no group mean vector difference: A comparison of MANOVA and SEM. Paper presented at the Annual meeting of the Psychometric Society, Durham, NH, June.
- French, B.F. & Finch, W.H. (2008). Multigroup Confirmatory Factor Analysis: Parameter Bias and Noninvariant Referents. Paper presented at the Joint Statistical Meetings, Denver, CO, August.
- Finch, W.H. & Laking, T.L. (2008). Evaluation of methods for interpreting results from a discriminant analysis. Poster presented at the Annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Pierson, E.E. & Finch, W.H. (2008). P_{rep} : Not your daddy's p-value. Poster presented at the Annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Davis, A. S., Finch, W. H., Boseck, J., & Dean, R. S. (2008). Classification and Regression Tree Analysis of Cognitive Processing Abilities in the Differentiation of ADHD Subtypes. Poster presented at the 28th Annual Meeting of the National Academy of Neuropsychology, New York, NY, October.
- Finch, W.H. & MarGraff, M. (2008). Imputation of Categorical Missing Data: A

- comparison of Multivariate Normal and Multinomial Methods. Paper presented at the Midwestern Sas Users Group, Indianapolis, IN, October.
- Finch, W.H., Lapsley, D.K. & Baker-Boudissa, M.E. (2008). Teacher Influence on Student Achievement and the "Negative New School Transition Effect" in Indiana Charter Schools. Paper presented at the Conference on Teacher Effects, Notre Dame University, November.
- Bronk, K. C., Finch, H., & Tasneem, N. (2008). Purpose, Hope, and Life Satisfaction among Adolescents. Paper presented at the annual meeting of the Association for Moral Education, Notre Dame University, November.

Year 2007

- Cross, J.R., Cross, T.L. & Finch, W.H. (2007). Influence of social dominance orientation and right-wing authoritarianism in gifted education. Poster presented at the National Association for Gifted Children Annual Convention, Minneapolis, MN, November 7-11, 2007.
- Davis, A.S., Finch, W.H., Dean, R., Hiller, & Hall, J. The Factor Invariance of the Dean-Woodcock Sensory-Motor Battery for Patients with ADHD. Poster presented at the National Academy of Neuropsychology. Scottsdale, AZ, November, 14-18.
- Davis, A. S., Finch, W. H., Williams, R. N., Gupta, A. S., Randolph, C., Pass, L. A., & Whited, A. R. (2007). Classification and regression tree analysis of neurocognitive functioning in patients with and without multiple sclerosis. Poster presented at the 21st Annual Meeting of the Consortium of Multiple Sclerosis Centers, Washington, D.C..
- Davis, A. S., Finch, W. H., Williams, R. N., Gupta, A. S., Randolph, C., Whited, A. R., & Pass, L. A. (2007). Evaluating the Neurocognitive Differences in Patients with and without Multiple Sclerosis. Poster presented at the 21st Annual Meeting of the Consortium of Multiple Sclerosis Centers, Washington, D.C..
- Finch, W.H. & French, B.F. (2007). Comparing factor loadings in exploratory factor analysis: A new randomization test. Paper presented at the Joint statistical meetings. Salt Lake City, UT, August.
- Finch, W.H. & French, B.F. (2007). Student Achievement and Adequate Yearly Progress within the Indiana Charter School System. Poster presented at the conference on Contemporary issues in high stakes testing. Lincoln, NE, May.
- Finch, W.H. & Laking, T.L. (2007). Comparison of parametric and exact test MANOVA in the presence of small samples and violations of assumptions. Paper presented at the Annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Finch, W.H. & French, B.F. (2007). Using Exploratory Factor Analysis for Locating Invariant Referents in Factor Invariance Studies. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL, April.
- Finch, W.H. (2007). Item parameter estimation for the MIRT model: Accuracy, bias and precision of four factor analysis based models. Paper presented at the Annual meeting of the National Council for Measurement in Education, Chicago, IL, April.
- Finch, W.H. (2007). Interpreting structure coefficients in discriminant analysis: A

- comparison of several methods. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL, April.
- Jameson, M. & Finch, W.H. (2007). The Development and Validation of the Statistics Anxiety Measure. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL.

Year 2006

- Finch, W.H. & Lee, T, -M. (2006). The relationship between prior statistics course work and student expectations for a graduate statistics course. Paper presented at the 122nd annual meeting of the Indiana Academy of Science, Muncie, IN, November.
- Davis, A. S., Shunk, A.W., Finch, W. H., Dean, R. S., & Woodcock, R. W. (2006). Confirmatory Factor Analysis of the CHC Theory for Individuals with TBI. Poster presented at the 26th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November.
- Davis, A. S., Shunk, A.W., Finch, W. H., Dean, R. S., & Woodcock, R. W. (2006). Confirmatory Factor Analysis of the CHC Theory for Individuals with ADHD. Poster presented at the 26th Annual Conference of the National Academy of Neuropsychology, San Antonio, TX, November.
- Finch, W.H. (2006). Comparison of M-estimator and non-robust Roy-Bargmann stepdown follow-up to a significant MANOVA. Paper presented at the Joint Statistical Meetings, Seattle, WA, August.
- Davis, A. S., Pass, L. A., Finch, W. H., Dean, R. S., & Woodcock, R. W. (2006). The Relationship between Sensory-Motor Skills and Achievement in Children with ADHD. Poster presented at the 113th Annual Convention of the American Psychological Association, New Orleans, LA, August.
- Davis, A. S., Pass, L. A., Finch, W. H., Dean, R. S., & Woodcock, R. W. (2006). The Relationship between Sensory-Motor Skills and Cognitive Processing in ADHD. Poster presented at the 113th Annual Convention of the American Psychological Association, New Orleans, LA, August.
- French, B.F. & Finch, W.H. (2006). Locating the Invariant Referent in Multi -Group Confirmatory Factor Analysis. Paper presented at the International Meeting of the Psychometric Society, June.
- Finch, W.H. & French, B.F. (2006). Type I error rate for one type of DIF detection in the presence of the other type: A Monte Carlo study. Paper presented at the International Meeting of the Psychometric Society, June.
- Finch, W.H. & French, B.F. (2006). Detection of crossing differential item functioning: A comparison of four methods. Paper presented at the annual meeting of the National Council on Measurement in Education, April.
- Finch, W.H., Barton, K. & Meyer, J.P. (2006). Differential item function analysis for accommodated versus not accommodated students. Paper presented at the annual meeting of the American Educational Research Association, April.
- Speirs Neumeister, K. & Finch, W.H. (2006) Perfectionism in Gifted Students: Relational precursors and influences on achievement motivation. Paper presented at the annual meeting of the American Educational Research Association, April.
- Davis, A. S., Finch, W. H., Dean, R. S., & Woodcock, R. W. (2006). The canonical

relationship between sensory-motor skills and academic achievement in children with ADHD. Poster presented at the 34th Annual Meeting of the International Neuropsychological Society, Boston, MA, March.

Year 2005

- Stage, K.A., Davis, A.S., Finch, W.H., Trinkle, J.M., & Dean, R. (2005). Predicting cognitive processing abilities using construction tasks from a neurologically impaired sample. Poster presented at the annual convention of the National Academy of Neuropsychology, Tampa, FL, November.
- Stage, K.A., Davis, A.S., Finch, W.H., Trinkle, J.M., & Dean, R.S. (2005). Classification and Regression Tree Analysis of Individuals with ADHD. Poster presented at the annual meeting of the National Academy of Neuropsychology, Tampa, FL, November.
- Davis, A.S., Finch, W.H., Dean, R.S. & Woodcock, R.W. (2005). Confirmatory Factor Analysis of CHC theory with a neurologically impaired sample. Poster presented at the annual meeting of the American Psychological Association, Washington, DC, October.
- Stage, K., Finch, W.H. & Robertson, T. (2005). Gender differences in satisfaction with a university Astronomy course: Application of differential item functioning. Paper presented at the annual meeting of the Indiana Academy of Science, Saint Mary of the Woods College, IN, October.
- Schneider, M.K. & Finch, W.H. (2005). Suggested Sample-Size-to-Variable Ratios for Discriminant Analysis. Paper presented at the annual Joint Statistical Meetings of the American Statistical Association, August.
- Finch, H., Stage, K. & Monahan, P. (2005). Comparison of the performance of simple structure indices: The DETECT r-ratio, Bentler's Simplicity Index and the Loading Simplicity Index. Paper presented at the annual Joint Statistical Meetings of the American Statistical Association, Minneapolis, MN, August.
- Noggle, C.A., Dean, R. & Finch, W.H. (2005). Differential diagnosis of dementia and depression using the Dean-Woodcock. Poster presented at the annual meeting of the American Psychological Association, Washington, DC, August.
- Perkins, A., Monahan, P., Finch, H., Chorney, C.M., Stump, T. & Hambleton, R.K. (2005). Bias of exploratory and cross-validated DETECT index under null hypothesis of unidimensionality. Paper presented at the annual convention of the American Education Research Association, Montreal, QC, April.
- Finch, W.H. & Schneider, M.K. (2005). Performance of five methods of group membership prediction: 3 and 5 groups cases. Paper presented at the annual convention of the American Education Research Association, Montreal, QC, April.
- Finch, W.H. & Monahan, P. (2005). Dimensionality assessment: Comparison of bootstrap Modified Parallel Analysis with Parallel Analysis and DETECT. Paper presented at the annual convention of the National Council for Measurement in Education, Montreal, QC, April.
- Davis, A. S., Finch, W. H., & Dean, R. S. (2005). The canonical

- relationship between sensory-motor functioning and cognitive processing. Poster presented at the 37th Annual Convention of the National Association of School Psychologists, Atlanta, GA, March.
- Davis, A. S., Finch, W. H., & Dean, R. S. (2005). Constructs underlying the Dean-Woodcock Sensory Motor System. Poster presented at the 37th Annual Convention of the National Association of School Psychologists, Atlanta, GA, March.
- Davis, A. S., Trinkle, J. M., Finch, W. H., & Dean, R. S. (2005). Classification and regression tree analysis of the Dean-Woodcock Sensory-Motor Battery with neurologically impaired and normal individuals. Poster presented at the 33rd Annual Convention of the International Neuropsychological Society, St. Louis, MO, March.

Year 2004

- Noggle, C.A., Davis, A.S., Reese, T., Finch, H. & Dean, R.S. (2004). The Construct Validity of the Dean-Woodcock Sensory Motor Battery with a Neurologically Impaired Sample. Poster presented at the Annual Convention of the National Academy of Neuropsychology, Seattle, WA, November.
- Reese, T.R., Davis, A.S., Trinkle, J.M., Finch, H. & Dean, R.S. (2004). The Canonical Relationship Between Sensory-Motor Functioning and Achievement. Poster presented at the Annual Conference of the National Academy of Neuropsychology, Seattle, WA, November.
- Trinkle, J., Davis, A. S., Noggle, C. A., Finch, W. H., & Dean, R. S. (2004). Evaluating the construct validity of the Dean-Woodcock Sensory Motor Battery. Poster presented at the Annual Conference of the National Academy of Neuropsychology, Seattle, WA, November.
- Finch, W.H. (2004). Comparison of the performance of rotation methods for IRT based factor analysis. Paper presented at the Joint Statistical Meetings of the American Statistical Association, Toronto, ON, August.
- Finch, W.H. & Habing, B. (2004). NOHARM goodness of fit statistic anomalies. Paper presented at the National Council for Measurement in Education meetings, San Diego, CA, April.
- Barton, K. & Finch, W.H. (2004). Testing assumptions of unidimensionality across groups of students with disabilities, with accommodations and English language learners. Poster presented at the National Council for Measurement in Education meetings, San Diego, CA, April.
- Finch, W.H. & Schneider, M.K. (2004). A comparison of the predictive accuracy of Classification and Regression Trees with Discriminant Analysis and Logistic Regression. Poster presented at the American Educational Research Association meetings, San Diego, CA, April.
- Davis, A. S., Finch, W. H., & Dean, R. S. (2004). The canonical relationship between sensory-motor functioning and cognitive processing. Poster presented at the 37th Annual Convention of the National Association of School Psychologists, Atlanta, GA, March.
- Davis, A. S., Finch, W. H., & Dean, R. S. (2004). Constructs underlying the Dean-Woodcock Sensory Motor System. Poster presented at the 37th Annual

Convention of the National Association of School Psychologists, Atlanta, GA, March.

Year 2003

- Dixon, F, Hanchon, T., Finch, W.H. & Lapsley, D.K. (2003). Perfectionism in Gifted Adolescents: Teachers' Perspectives. Paper presented at the annual meeting of the National Association of Gifted Children, Indianapolis, IN, November.
- Schneider, M.K. & Finch, W.H. (2003). Using Multiple Linear Regression in counseling research: A guided tour. Poster presented at the Southern Association of Counselor Education Schools Conference, Chattanooga, TN, September.
- Finch, W.H. (2003). Fear and loathing in the Statlab: Lessons learned from listening to clients. Presentation at the Joint Statistical Meetings of the American Statistical Association, San Francisco, CA, August.
- Finch, W.H., Habing, B. & Huynh, H. (2003). Comparison of NOHARM and Conditional Covariance Methods of Dimensionality Assessment. Poster presented at the American Educational Research Association meetings, Chicago, IL, April.
- Finch, W.H. (2003). Comparison of Performance of Nonparametric and Parametric MANOVA under a Variety of Conditions. Paper presented at the American Educational Research Association meetings, Chicago, IL, April.
- Finch, W.H., Habing, B. & Huynh H.H. (2003). Comparison of NOHARM and DETECT: Counting Dimensions and Allocating Items. Paper presented at the National Council for Measurement in Education meetings, Chicago, IL, April.

Year 2002

- Finch, W.H. (2002). Distance consulting in a university setting: Two case studies. Paper presented at the American Statistical Association Joint Meetings, New York, NY, August.
- Finch, W.H., Habing, B., Roberts, J., & Nandakumar, R. (2002). A Q3 Statistic for Unfolding Item Response Theory Models. Paper presented at the American Educational Research Association meetings, New Orleans, LA, April.
- Shelton, A., Kaczmarek, M., Finch, W.H., DesChamps, & M., Silk, D. (2002). Comparison of Prehospital Providers and Medical Control Physicians' Opinion of DNR Care. Paper presented at the Society for Emergency Medicine, Atlanta, GA, March.

Years 1997- 2001

- Horger III, E.O., Finch, W.H. & Vincent, V.E. (2001). A Single Physician's Experience with 4600 Genetic Amniocenteses. Paper presented at the annual meeting of the South Atlantic Association of Obstetricians and Gynecologists, Myrtle Beach, SC, October.
- Finch, W.H. (2000). Clients Telling Their Stories: An Ethnographic Analysis of First Meetings Between Statistical Consultants and Their Clients. Joint Meetings of the American Statistical Association, Indianapolis, IN, August.
- Huynh, H. & Finch, W.H. (2000). Robust/resistant statistical procedures with applications to multiple regression analysis and analysis of variance".

- Professional development and training, American Educational Research Association, New Orleans, LA, April.
- Finch, W.H. & Huynh H. (2000). Comparison of Similarity Measures in Cluster Analysis with Binary Data. Presentation at the American Educational Research Association annual meetings, New Orleans, LA, April.
- Parnell, M., Kilmann, P., Finch, W.H., Carranza, L. & Blumenstiel, B. (2000). Personal and interpersonal characteristics linked with adult attachment patterns. Poster presentation, Southeastern Psychological Association annual meeting, Savannah, GA, March.
- Finch, W.H. (1999). A Qualitative Analysis of Client Expectations in a Statistical Computing Laboratory. Joint Meetings of the American Statistical Association, Baltimore, MD, August.
- Grego, J. & Finch, W.H. (1997). Improvements in the Quality of Consulting in a Statistical Laboratory. South Carolina Statewide Quality Conference, Myrtle Beach, SC, October.
- Finch, H. (1997). The Use of SAS to Construct Horvitz-Thompson Type Estimators for Safety Belt Compliance. Annual meeting of the South East SAS Users Group annual meeting, Jacksonville, FL, September.

Invited Addresses to Professional Groups

- Finch, W.H. (2019). Panelist in a session titled "The impact of AI". Security and Software Engineering Research Center. Ball State University.
- Finch, W.H. (2019). Longitudinal Data Analysis. Presented at the research colloquium sponsored by the University of Kentucky Department of Family Studies.
- Finch, W.H. (2019). Network Analysis as a Tool for understanding Psychological Phenomena. Presented to the Speaker Series by the Department of Psychological Sciences, Ball State University.
- Raes, M.L. & Finch, W.H. (2018). Textual Data Visualization in R. Presented as a workshop at the Ball State University Digital Scholarship Lab.
- Finch, W.H. (2017). Growth Curve Modeling. Presented at the research colloquium sponsored by the University of Kentucky Department of Family Studies.
- Finch, W.H. (2017). Multilevel Modeling. Presented at the research colloquium sponsored by the Northern Illinois University Department of Psychology.
- Finch, W.H. (2016). The LASSO for Multivariate Regression: A Comparison of Methods. Presented at the research colloquium sponsored by the Ball State University R User's Group.
- Finch, W.H. (2015). Item Response Theory modeling using R software. Presented at the research colloquium sponsored by the Ball State University R User's Group.
- Finch, W.H. (2014). Identifying typologies of academic achievement among charter schools using a multilevel latent class model. Presented at the research colloquium of the Department of Statistics. The University of South Carolina.
- Finch, W.H. (2014). Methods for Differential Item Functioning Detection for more than two groups. Presented at the research colloquium of the Department of Biostatistics. Indiana University School of Medicine.

- Finch, W.H. (2013). Generalized Additive Structural Equation Modeling. Presented at the research colloquium of the Department of Psychology. Notre Dame University.
- Finch, W.H. (2012). The Practical Application of Item Response Theory to Psychological Research. Continuing education presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Finch, W.H. (2011). Invariance testing in latent class analysis: A comparison of statistics. Presented at the research colloquium of the Department of Educational Psychology, University of Nebraska, Lincoln.
- Finch, W.H. (2009). Introduction to the practice of structural equation modeling. Continuing education presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL, May.
- Finch, W.H. (2005). The Generalized Graded Unfolding Model: An introduction. Presented to the Measurement Club at Purdue University, October.

Grants and evaluation projects

An Investigation of the Cultural Fairness of the MMPI-A-RF Restructured Clinical Scales Using Structural Equation Modeling. 2021. (Funded). University of Minnesota Press. \$19,000.

Validation of the PEECE scale for parent engagement, 2020, (Not funded). Institute for Educational Sciences. Co-I. \$250,000

Application of Generative Adversarial Networks to prediction of adolescent suicide risk. (Not funded). 2020 American Educational Research Association. Co-PI. \$25,000

Workshop on Machine Learning for Psychologists. (Not funded). 2019 Psychonomic Society. PI. \$10,000.

Application of Generative Adversarial Networks to prediction of adolescent suicide risk. (Not funded). 2019 American Educational Research Association. Co-PI. \$25,000

POST Facilitation for Community Dwelling Older Adults with and without Dementia. (Funded). 2019 Member of Data Safety and Monitoring Board.

Evaluation of Science Ambassadors Program PI. (Funded). 2018 Dow Chemical Company, \$6,000.

Enhancing the Prognostic Resolution of Cardiopulmonary Exercise Testing (CPX) by Examining the Association among Variables Obtained During Submaximal and Maximal Exertion, C-PI. (Funded). 2018 American Heart Association, \$10,000.

A Mixed-Method Study of African American High School Students' Experiences with Classroom Discussions About Race, consultant. 2018 Internal grant, \$10,000.

Performance-Based Assessment for Skills for success in Middle School, 2017, Co-PI. (Not funded). Institute for Educational Sciences.

Performance-Based Assessment for Skills for success in Middle School, 2016, Co-PI. (Not funded). Institute for Educational Sciences.

An Empirical Examination of Two Methods for Adjusting Data for Cultural Response Styles, 2016, Co-PI. (Not funded). National Science Foundation.

Performance-Based Assessment for Skills for success in Middle School, 2016, Co-PI. (Not Funded). Institute for Educational Sciences.

Development of an online multi-dimensional math motivation intervention program for early adolescents, 2016, Co-PI. (Not funded). Institute for Educational Sciences.

Development of an Assessment Tool for the Skills for Success Program, 2016, Co-PI. (Not funded). Institute for Educational Sciences.

Development of effect size measures for measurement invariance assessment, 2015, PI. (Not Funded). National Science Foundation. \$250,000.

Development of effect size measures for measurement invariance assessment, 2015, PI. (Not Funded). Institute of Educational Sciences. \$250,000.

Applications of Measurement Invariance Techniques to Enhance Measurement Sensitivity, 2014, PI. (Not Funded). National Science Foundation. \$294,611. Principal Investigator.

Investigating the moderation by immigration status, language spoken in the home, and nation of residence, on the impact of family resources, school context, and learning strategies on science, math, and reading achievement, 2014, PI. (Not funded). American Educational Research Association. \$20,000.

Making Multilevel Latent Variable Modeling Implementation Easy with R (Not funded), 2013, PI. National Science Foundation. \$337,694.

Increased Accuracy in the Detection of Differential Item Functioning through Multilevel Analysis (Funded 2011-2014), PI. Institute of Educational Sciences. \$153,071. Principal Investigator.

Comparative Public School Funding: Policies that produce equity and investments that lead to student achievement (Funded 2008-2010), PI. The Walton Foundation. \$252,080. Principal Investigator.

The influence of psychological orientation on practice in gifted education (2007). Joseph and Marcella Hollis Fund. \$1,500.

Indiana General Supervision Enhancement Grant (2006-2008). Dr. Larry Smith, Elementary Education. Served as the statistical consultant to the project, providing advice on sample selection, data analysis and data management.

Evaluation and data analysis (2003-2008). Indiana Charter Schools. Conducted data analysis, advised in report writing and data collection and conducted a workshop for charter school principals in data analysis and reporting of students' academic progress.

Evaluation (2005-2006). South Carolina State Department of Education. Conducted a dimensionality assessment of the statewide mathematics proficiency test for 8th graders.

Evaluation (2005-2006). Muncie Community Schools. Conducted a quantitative evaluation of the Title IID EET mathematics program for 8th grade students.

Interrater reliability study (2005). Teachers College, Ball State University. Conducted a study to determine the interrater reliability of the rubric for assessing Teacher Education majors' electronic portfolios.

Reliability and validity study (2005). History Department, Ball State University. Conducted study to determine reliability and validity of the department's Decision Point 2 examination for social studies education majors.

Reliability and validity study (2005). Muncie Central High School. Conducted study to determine reliability and validity of the school's Mathematics Competency Exam.

S.E.E.T. New Faculty Grant (2005). Internal Ball State University grant to investigate the performance of multiple statistical tools for assessing the dimensionality of test items.

Interrater reliability study (2004). Teachers College, Ball State University. Conducted a study to determine the interrater reliability of the Interstate New Teacher Assessment and Support Consortium (INTASC) for the Office of Educational Field Experiences at Ball State University.

Professional Service

Methods in Psychology

Editor in Chief (2019)

African Americans Living Abroad Research Program

Advisory Committee (2017)

Statistics Without Borders (initial year)

Functional Consultant (2016)

ITEMS editor

National Council on Measurement in Education (2012-2016)

ITEMS Advisory Board (initial year)

National Council on Measurement in Education (2016)

Review Editor (initial year)

Journal of Educational Measurement (2013)

Associate Editor (initial year)

Communications in Statistics – Simulation and Computation (2021)

Frontiers in Quantitative psychology and measurement (2010)

Statistical Methodology Editor (initial year)

Journal of the First Year Experience and Students in Transition (2005)

Journal of Pediatric Neuropsychology (2014-2019)

Statistical Methodology Consultant (initial year)

Journal of Cardiopulmonary Rehabilitation and Prevention (2019)

Advisory Editor

Journal of Educational Measurement (2011-2019)

Editorial Board (Initial year)

Gifted Child Quarterly (2020)

Psychological and Educational Measurement (2020)

Psych (2020)

Interdisciplinary Education and Psychology (2017)

Educational Psychology (2016)

Archives of Scientific Psychology (2016)

Educational and Psychological Measurement (2008)

The Teacher Educator (2010)

International Journal of Quantitative Research in Education (2012)

International Scholarly Research Network – Education (2012)

The Asia-Pacific Education Researcher (2012)

Psychological Assessment (2013)

Journal of Experimental Education (2014)

Multiple Linear Regression Viewpoints (2014)

Educational Research Quarterly (2014)

Journal of Global Education and Research (2017)

Technical Report Reviewer

Educational Testing Service (2014)

Professional Journal Review ad hoc (Initial year as reviewer)

Applied Psychological Measurement (2005)

British Journal of Mathematical and Statistical Psychology (2005)
Journal of General Internal Medicine (2005)
Roeper Review (2005)
Psychological Methods (2004)
Psychological Assessment (2006)
Personality and Individual Differences (2006)
Computational Statistics and Data Analysis (2006)
Journal of Educational Measurement (2006)
Personality and Individual Differences (2006)
Journal for the Education of the Gifted (2007)
Astronomy Education Review (2007)
Journal of Charter School Research (2007)
Educational and Psychological Measurement (2007)
Structural Equation Modeling (2007)
Educational Assessment (2008)
Psychological Assessment (2008)
Journal of Classification (2008)
Educational Measurement: Issues and Practice (2009)
Behavior Research Methods (2009)
Journal of Experimental Education (2010)
Journal of Statistical Computation and Simulation (2010)
Journal of Psychoeducational Assessment (2010)
European Journal of Psychological Assessment (2010)
Brazilian Journal of Probability and Statistics (2012)
BMJ (2012)

Textbook Reviews

Keller, S. (2008). The Tao of validity.
Hogan, T.P. (2005). Educational Assessment: A practical introduction.
Summers, C.R. (2005). Statistics for the Behavioral Sciences: A comparison approach.

Service to Professional Organizations

American Educational Research Association

Chair, Multilevel modeling SIG, AERA, 2021-2022
Vice-Chair, Multilevel modeling SIG, AERA, 2020-2021
Member at large for Educational Statistician SIG governing board, 2017-2018
Appointed to proposal review committee for NCME, 2016
Appointed to proposal review committee for AERA Division D SIG, 2016
Appointed to proposal review committee for AERA Educational Statistician SIG, 2016.
Appointed to proposal review committee for AERA Validity SIG, 2016.
Appointed to proposal review committee for NCME, 2015.
Appointed to proposal review committee for AERA Division D SIG, 2015
Appointed to proposal review committee for AERA Educational Statistician SIG, 2015.
Program chair, Structural Equation Modeling Special Interest Group, 2015-2017
Chairperson, Multiple Linear Regression Special Interest Group, 2014-2017
Chairperson, Educational Statisticians Special Interest Group, 2014-2015

Program chair, Educational Statisticians Special Interest Group, 2013-2014
Appointed to proposal review committee for AERA Educational Statistician SIG, 2014.
Appointed to proposal review committee for NCME, 2014.
Appointed to proposal review committee for AERA Division D SIG, 2012-4
Appointed to proposal review committee for AERA Validity Assessment SIG, 2014.
Appointed to proposal review committee for AERA Division D SIG, 2012.
Appointed to proposal review committee for AERA Validity Assessment SIG, 2013.
Appointed to proposal review committee for AERA Multilevel Modeling SIG, 2013.
Appointed to proposal review committee for AERA Rasch SIG, 2013.
Appointed to proposal review committee for AERA Educational Statistician SIG, 2013.
Appointed to proposal review committee for AERA Multiple Regression SIG, 2013.
Elected Member at large to Educational Statistician SIG governing board, 2012-2013.
Appointed to proposal review committee for AERA Multiple Regression SIG, 2012.
Appointed to proposal review committee for AERA Multiple Regression SIG, 2009.
Appointed to proposal review committee for AERA Hierarchical Linear Modeling SIG, 2009.
Discussant, Division D, Quantitative methods and statistical modeling, Session 16.021. Annual meeting, 2009.
Discussant, Division D, Quantitative methods and statistical modeling, Session 39.029. Annual meeting, 2009.
Discussant, Division D, Quantitative methods and statistical modeling, Session 31.028. Annual meeting, 2008.
Discussant, Division D, Multidimensional Item Response Theory, Session 19.030. Annual meeting, 2007.
Discussant for 2004 Annual Meeting for Section D-15.029
Outstanding Dissertation Award selection committee, Division D, 2007 and 2008.
Presidential nomination review Board for 2006, Educational Statisticians SIG.
Review for Annual Meeting for Division D, Structural Equation Modeling SIG, Multiple linear regression SIG and Educational Statisticians SIG, 1999 - 2010.

National Council on Measurement in Education

Alicia Cascallar Outstanding Research Award, 2014-2016.
Discussant for 2012 Annual Meeting, Missing data across measurement contexts
Discussant for 2009 Student Poster presentation
Discussant for 2008 Annual Meeting, Issues in the Assessment of Dimensionality/Local Dependence, Session C3
Discussant for 2008 Annual Meeting, Analyses of Differential Item Functioning, Session C3
Discussant for 2008 Student Poster presentation
Moderator for 2007 Annual Meeting, Advances in Modeling, Session D5
Discussant for 2007 Student Poster presentation
Discussant for 2006 Student Poster presentation
Chair for 2005 Annual Meeting, Session G3
Review for 2005 - 2010 Annual Meeting

Psychometric Society

Member of Student Travel Awards Committee, 2020-2021
Member of Elections Committee, 2017-2018
Session chair for 2006 Annual Meeting, Session FAC 1

American Psychological Association, Division 5

Panel Member, Graduate Student Career Seminar, 2015
Review for 2007 - 2016 Annual Meeting

National Science Foundation (NSF)

Grant proposal peer review board (beginning 2009)

Institute of Educational Science (IES)

Grant proposal peer review board panel (2010-2017)

Social Sciences and Humanities Research Council of Canada

Grant proposal peer review panel (beginning 2010)

Netherlands Organization for Scientific Research review panelist

Research proposal peer review panel (beginning 2014)

State Service

Appointed to the Governor's Working Group on Teacher Preparation, 2008 - present.
Provided a sampling plan to the Office of Research and Evaluation in the Indiana
Department of Education, 2008

University Service (Ball State University)

University Representative, Faculty Special Assigned Leave Committee
Search committee for statistician position in University Computing Services, 2009
University Grade Appeals, 2017
Provost Undergraduate Award Committee, 2020

Graduate Student Development Conference

Presentation "Evaluating students' work", August 18, 2008
Presentation "Evaluating students' work", August 13, 2007
Presentation "Evaluating students' work", August 14, 2006

Teachers College representative to the University Grade Appeals Committee, 2009-2011

Office of Teaching and Learning Advancement, Seminar on test item writing, Fall, 2008

Institute for Entrepreneurial School Leadership, Presentation "Increasing Student
Achievement", October 14, 2006

Office of Charter Schools Research

Director of Research, Office of Charter Schools Research, 2007-Present
Presentation to the Thomas Fordham Foundation, November 10, 2006

Office of Charter Schools

Member of committee to develop recommendations for procedures to identify ineffective charter schools for possible closure, 2008.

Department of Educational Psychology, Ball State University

Personnel Selection Committee: 2004-2008

Chair of faculty search for position on statistics and research methods, 2007-2008

Promotion and Tenure Committee: 2005-2008

Salary Appeal Committee: 2004-2010

Advanced Graduate Studies Committee: 2005-2008

Curriculum Planning and Review Committee: 2004-2006, 2009-2010

Policy and planning Committee: 2009-2010

Educational Psychology Core, 2008-2010

Chair, Curriculum Planning and Review Committee, 2009-2010

Department Assessment Coordinator, 2009-2010

Secretary, Promotion and Tenure Committee, 2008-2009

Teaching

Graduate and Undergraduate Courses Taught

Ball State University (2003-present)

Introduction to Educational Measurement: undergraduate (EDPSY 345)

Research Methodology (EDPSY 640)

Introduction to Statistical Methodology (EDPSY 641)

Intermediate Statistics (EDPSY 642)

Topics in Advanced Research Methods as independent study (EDPSY 645)

Introduction to Educational Measurement (EDPSY 646)

Item Response Theory (EDPSY 698)

Categorical Data Analysis (EDPSY 740)

Seminar in Nonparametric statistics (EDPSY 730)

Seminar in Structural Equation Modeling (EDPSY 744)

Regression analysis (EDPSY 741)

Multivariate Statistics (EDPSY 742)

Factor Analysis (EDPSY 743)

Theory of Measurement (EDPSY 746)

University of South Carolina (1997-2003)

Introduction to Statistics (STAT 201)