

# Curriculum Vitae

## Neal Martin Kingston

### EDUCATION

- Ph.D. Educational Measurement, Teachers College, Columbia University, New York, NY, 1983  
M.Phil. Educational Measurement, Teachers College, Columbia University, New York, NY, 1983  
M.Ed. Educational Measurement, Teachers College, Columbia University, New York, NY, 1978  
M.A. Psychology in Education, Teachers College, Columbia University, New York, NY, 1977  
B.A. Liberal Studies (concentrations in Biology & Education), State University of New York, Stony Brook, NY, 1974

### EMPLOYMENT HISTORY

- 2006 – present University of Kansas, School of Education, Lawrence, Kansas  
Program Coordinator, Research, Evaluation, Measurement, and Statistics track  
2010 –2011; 2020-present  
Educational Psychology, Director of Graduate Studies, 2019 - present  
University Distinguished Professor, Educational Psychology 2018 - present  
Courtesy Professor, Special Education, 2017 – present  
Director, Achievement and Assessment Institute, 2012 – present  
Professor, Educational Psychology (formerly Psychology and Research in Education), 2012 – present  
Director, Center for Educational Testing and Evaluation, 2009 – 2012  
Interim Department Chair, Psychology and Research in Education, Fall 2009  
Co-Director, Center for Educational Testing and Evaluation 2008 – 2009  
Associate Department Chair, Psychology and Research in Education, 2008 – 2010  
Associate Professor, Psychology and Research in Education, 2006 – 2012
- 2004 – 2006 CTB McGraw-Hill, Monterey, CA  
Vice President - General Manager and Vice President of Research
- 1996 – 2004 Measured Progress (name changed from Advanced Systems in 1998), Dover, NH  
Senior Vice-President/Chief Operating Officer 1997-2004  
Vice-President 1996-1997
- 1996 Assessment Consultant
- 1993 – 1995 Kentucky Department of Education, Frankfort, KY  
Associate Commissioner, Office of Curriculum, Assessment, and Accountability
- 1991 – 1993 Assessment Consultant
- 1982 – 1991 Educational Testing Service, Princeton, NJ  
Executive Director, Workplace Assessment and Training, 1990–1991  
Director of Graduate Record Examinations Research and New Testing Initiatives, 1989–1990  
Director of Graduate Record Examinations Research and Test Development, 1987–1989  
Group Head, School and Higher Education Programs Statistical Analysis, 1983–87

Senior Measurement Statistician, School and Higher Education Programs  
 Statistical Analysis, 1982–1987

1981 – 1982 Los Angeles County Department of Personnel

1978 – 1981 Educational Testing Service, Princeton, NJ  
 Associate Measurement Statistician

1974 – 1976 Yonkers Board of Education, Yonkers, NY  
 Science Teacher

## HONORS

2015 National Association of Assessment Directors Award for Outstanding Contributions to Educational Assessment

## GRADUATE AND POSTGRADUATE ADVISING RECORD

**Committee Chair: Doctoral.** (Ph.D. date is date of final defense)

- Falah, Abdulrazzag; (Research, Evaluation, Measurement, & Statistics) 2019-present
- Akin Tas, Merve; (Research, Evaluation, Measurement, & Statistics) 2018-present
- Schutte, Jessica; (Research, Evaluation, Measurement, & Statistics) 2017-present
- Scheuring, Sylvia; (Research, Evaluation, Measurement, & Statistics) 2009-ABD
- Pan, Qianqian; (Research, Evaluation, Measurement, & Statistics), Ph.D. August 2018. Growth Modeling in a Diagnostic Classification Model (DCM) Framework
- Thompson, William Jake; (Research, Evaluation, Measurement, & Statistics) Ph.D. April 2018. Evaluating Model Estimation Processes for Diagnostic Classification Models.
- Lao, Hongling; (Research, Evaluation, Measurement, & Statistics), Ph.D. December 2017. Local Optima in Diagnostic Classification Models.
- Tiemann, Gail; (Research, Evaluation, Measurement, & Statistics) Ph.D. May 2015. An Investigation of Answer Changing on a Large-scale Computer-based Educational Assessment
- Loughran, Jessica; (Research, Evaluation, Measurement, & Statistics), Ph.D. December 2014. Differential Item Functioning for English Language Learners on Math Items: The Influence of Linguistic Complexity Features.
- Atalmis, Erkan; (Research, Evaluation, Measurement, & Statistics) Ph.D. May 2014. The Impact of Number of Options of Multiple-Choice Questions on Item and Test Quality.
- Clark, Amy; (Research, Evaluation, Measurement, & Statistics), Ph.D. August 2013. Validation of a cognitive diagnostic model across multiple forms of a reading comprehension assessment.
- Zhao, Fei; (Research, Evaluation, Measurement, & Statistics) Ph.D. July 2013. Using Noncompensatory Models in Cognitive Diagnostic Mathematics Assessments: An Evaluation Based on Empirical Data
- Gu, Fei; (Research, Evaluation, Measurement, & Statistics) Ph.D. May 2013. Using Parametric and Residual-based Bootstrap to Assess the Absolute Goodness-of-fit for State Space Model
- Zheng, Chunmei; (Research, Evaluation, Measurement, & Statistics) Ph.D. April 2013. Examination of Parameter Estimates When Violating the Orthogonality Assumption of the Bifactor Item Response Model.
- Chen, Jie; (Research, Evaluation, Measurement, & Statistics) Ph.D. August 2012. Impact of Instructional Sensitivity on High-Stakes Achievement Test Items: A Comparison of

Methods.

Wang, Wenhao; (Research, Evaluation, Measurement, & Statistics) Ph.D. May 2012. Are All Item Response Functions Monotonically Increasing?

**Committee Chair: Masters.**

Clark, Amy; (Research, Evaluation, Measurement, & Statistics) 2010-2011

Gu, Fei; (Research, Evaluation, Measurement, & Statistics) 2006-2009

Schutte, Jessica (Research, Evaluation, Measurement, & Statistics) 2016-present

**Postdoctoral Fellows:**

Cho, Hyun-jeong, 2009-2011

**RESEARCH RECORD**

**Research Publications and/or Creative Works**

ORCID ID: 0000-0003-1870-309X

**Books**

1. Kingston, N.M. & Clark, A.K. (2014). *Test Fraud: Statistical Detection and Methodology*. New York: Routledge.

**Peer Reviewed Journal Articles** (\*indicates student, at the time the research was conducted, with whom I collaborated)

1. Wang, W., Chen, J., & Kingston, N. (accepted). How well do simulation studies inform decisions about multistage testing? *Journal of Applied Measurement*, 21(3), 1-11.
2. Davis, M. H., Wang, W., Kingston, N., Hock, M., Tonks, S. M., & Tiemann, G. (accepted). Computer Adaptive Measure of Reading Motivation. *Research in Reading*.
3. \*Pan Q, Qin L and Kingston N (2020) Growth Modeling in a Diagnostic Classification Model (DCM) Framework—A Multivariate Longitudinal Diagnostic Classification Model. *Front. Psychol.* 11:1714. doi: 10.3389/fpsyg.2020.01714
4. Saatcioglu, A., Skrtic, T.M., & Kingston, N.M. (2020). High stakes accountability in social and political context: Skill gains and losses in the No Child Left Behind era. *Sociological Inquiry*. <https://doi.org/10.1111/soin.12356>
5. Wang, W. & Kingston, N.M. (2020). Using Bayesian nonparametric item response functions to check parametric model fit. *Applied Psychological Measurement*. <https://doi.org/10.1177/0146621620909906>
6. Heritage, M. & Kingston, N.M. (2019). Classroom assessment and large-scale psychometrics: shall the twain meet? (a conversation with Margaret Heritage and Neal Kingston). *Journal of Educational Measurement*, 56(4), 670-685.
7. Bechar, S., Clark, A. K., Swinburne Romine, R., Karvonen, M., Kingston, N.M., & Erickson, K. (2019). Use of evidence-centered design to develop learning maps-based assessments. *International Journal of Testing*, 19:2, 188-205. <http://doi.org/10.1080.15305058.2018.1543310>
8. Wang, W. & Kingston, N.M. (2019), Adaptive testing with the Hierarchical Item Response Theory Model. *Applied Psychological Measurement*, 43(1), 51-67.
9. Embretson, S.E. & Kingston, N.M. (2018). Automatic Item Generation: A More Efficient Process for Developing Mathematics Achievement Items? *Journal of Educational Measurement*. 55(1), 112-131.

10. \*Atalmış, E. & Kingston, N.M. (2018). The Impact of Homogeneity of Answer Choices on Item Difficulty and Discrimination. *Practical Assessment, Research, and Evaluation*. Sage Open, January-March 2018: 1–9. <https://doi.org/10.1177/2158244018758147>
11. Clark, A., Nash, B. Karvonen, M., & Kingston, N.M. (2017). Condensed Mastery Profile Method for Setting Standards for Diagnostic Assessment Systems. *Educational Measurement: Issues and Practice*. 36(4), 5–15.
12. \*Atalmış, E.H. & Kingston N.M., (2017). Three, four, and none of the above options in multiple-choice items, *Turkish Journal of Education*. 6(4), 143-157.  
DOI:10.19128/turje.333687
13. \*Bender, A., Hagan, K. & Kingston, N.M. (2017). The Association of Folate Levels and Depression: A Meta-Analysis. *Journal of Psychiatric Research*, 95, 9-18.
14. Kingston, N.M., Karvonen, M., Thompson, J.R., Wehmeyer, M.L., & Shogren, K.A. (2017). Fostering Inclusion of Students with Significant Cognitive Disabilities through the use of Learning Maps and Learning Map Based Assessments. *Inclusion*, 5(2), 110-120.
15. Kingston, N.M. & Broaddus, A. (2017). The Use of Learning Map Systems to Support Formative Assessment in Mathematics. *Education Sciences*, 7 (41);  
doi:10.3390/educsci7010041.
16. Kingston, N.M., Karvonen, M., Bechard, S., & Erickson, K. (2016). The Philosophical Underpinnings and Key Features of the Dynamic Learning Maps Alternate Assessment. *Teachers College Record (Yearbook)*, 118(14). Retrieved September 1, 2016, from <http://www.tcrecord.org> ID Number: 140311.
17. Kingston, N., & Nash, B. (2015). "Formative assessment: A meta-analysis and a call for research": Erratum. *Educational Measurement: Issues and Practice*, 34(2), 55.  
<https://doi.org/10.1111/emip.12075>
18. Kingston, N.M., Broaddus, A., & \*Lao, H. (2015). Some Thoughts on “Using Learning Progressions to Design Vertical Scales that Support Coherent Inferences about Student Growth.” *Measurement: Interdisciplinary Research & Perspectives*, 13(3-4), 195-199.
19. Cho, H. J., & Kingston, N. (2015). Examining teachers’ decisions on test-type assignment for statewide assessments. *The Journal of Special Education*, 49(1), 16-27. (Published online September 2013).
20. Popham, W. J., Berliner, D.C., Kingston, N., Fuhrman, S.H., Ladd, S.M., Charbonneau, J. & Chatterji, M. (2014). Can today's standardized tests yield instructionally useful data? Challenges, promises and the state of the art, *Quality Assurance in Education*, 22(4), 300-316.
21. Adjei, S., Selent, D., Heffernan, N., Pardos, Z., Broaddus, A., Kingston, N. (2014) Refining Learning Maps with Data Fitting Techniques: Searching for Better Fitting Learning Maps. In Pardos & Stamper (Eds.) *The 2014 Proceedings of International Educational Data Mining Society*.
22. Cho, H. & Kingston, N.M. (2014). Understanding Test Type Assignment: Why Do Special Educators Make Unexpected Test Type Assignments? *Psychology in the Schools*, 51(8), 866-878.
23. Ginsberg, R. & Kingston, N.M. (2014). Caught in a Vise: The Challenges Facing Teacher Preparation in an Era of Accountability. *Teachers College Record* Volume 116(1), 2014, p. - <http://www.tcrecord.org> ID Number: 17295, Date Accessed: 1/14/2014 9:30:47 PM
24. Kingston, N.M., \*Tiemann, G.C., & \*Loughran, J.T. (2013). Commentary on “Construct Maps as a Foundation for Standard Setting.” *Measurement: Interdisciplinary Research & Perspectives*, 11, 181-184.

25. Cho, H. & Kingston, N.M. (2013). Why IEP Teams Assign Low Performers with Mild Disabilities to the Alternate Assessment Based on Alternate Achievement Standards. *Journal of Special Education*, 47, 162-174.
26. Cho, H., Wehmeyer, M. & Kingston, N.M. (2013). Factors that Predict Elementary Educators' Perceptions and Practice in Teaching Self-Determination. *Psychology in the Schools*, 50: 770-780.
27. Kingston, N.M. & \*Anderson, G. (2013) The Efficacy of Using State Standards-Based Assessments for Predicting Student Success in Community College Classes. *Educational Measurement: Issues and Practice* 32(3): 3-10.
28. \*Gu, F., Little, T., & Kingston, N.M. (2013) Misestimation of Reliability Using Coefficient Alpha and Structural Equation Modeling when Assumptions of Tau-Equivalence and Uncorrelated Errors are Violated. *Methodology*, 9, 30-40.
29. \*Zheng, C., Erickson, A.G., Kingston, N.M. & Noonan, P. (2012). The Relationship among Self-Determination, Self-Concept, and Academic Achievement for Students with Learning Disabilities. *Journal of Learning Disabilities*, 46(2), 1-13.
30. Kingston, N.M. & Nash, B. (2012). How Many Formative Assessment Angels can Dance on the Head of a Meta-Analytic Pin: .2. *Educational Measurement: Issues and Practice*, 31(4): 18-19.
31. Cho, H.J., Lee, J, and Kingston, N.M. (2012). Examining the Effectiveness of Test Accommodation Using DIF and a Mixture IRT Model. *Applied Measurement in Education*, 25(4): 281-304.
32. Kingston, N.M., \*Tiemann, G.C., Miller, H.L., & Foster, D. (2012). An Analysis of the Discrete-Option Multiple Choice Item Type. *Psychological Test and Assessment Modeling*, 54, 3-20.
33. Cho, H., Wehmeyer, M., & Kingston, N.M. (2012) The Impact of Social and Classroom Ecological Factors on Promoting Self-Determination in Elementary School. *Preventing School Failure*, 56, 19-28. (Published online December 15, 2011).
34. Kingston, N.M. & \*Nash, B. (2011). Formative Assessment: A Meta-Analysis and a Call for Research. *Educational Measurement: Issues and Practice*, 30:4, 28-37.
35. \*Gu, F., Skorupski, W., Hoyle, L., & Kingston, N.M. (2011). Standard Errors and Confidence Intervals from Bootstrapping Ramsey Curve-IRT Model Item Parameters. *Applied Psychological Measurement*, 35:568-571.
36. Cho, H. & Kingston, N.M. (2011). Capturing Implicit Policy from NCLB Test Type Assignments: Analysis of Characteristics and Performance of Students Taking Alternate Assessments Based on Modified Achievement Standards. *Exceptional Children* 78:58-72.
37. Cho, H., Wehmeyer, M. & Kingston, N.M. (2011). Elementary Teachers' Knowledge and Use of Interventions and Barriers to Promoting Student Self-Determination. *Journal of Special Education*, 45:149-156. (Published online 2010)
38. Bechard, S., Sheinker, J., Abell, R., Barton, K., Burling, K., Camacho, C., Cameto, R., Haertel, G., Hansen, E., Johnstone, C., Kingston, N., Murray, E., Parker, C., Redfield, D., Rodriquez, J., and Tucker, B. (2010). Measuring Cognition of Students with Disabilities Using Technology-Enabled Assessments: Recommendations for a National Research Agenda. *The Journal of Technology, Learning, and Assessment*, Vol. 10, No. 4.
39. Kingston, N.M. (2009). Comparability of computer- and paper-administered multiple-choice tests for K-12 populations: a synthesis. *Applied Measurement in Education* 22:22-37.

40. Kingston, N.M. (2007). Future challenges to psychometrics: Validity, Validity, Validity. In C.R. Rao and S. Sinharay (Ed.) *Handbook of Statistics, 26: Psychometrics*. Amsterdam, The Netherlands: Elsevier.
41. Kingston, N.M. and Ehringhaus, M. (2005). Use of technology and principles of universal design to improve the validity and fairness of licensure tests. In J.L. Mounty and D.S. Martin (Ed.) *Assessing Deaf Adults*. Washington, DC: Gallaudet University Press.
42. Kingston, N.M., Kahl, S.R., Sweeney, K.P., and Bay, L. (2001). Setting performance standards using the body of work method. In G.J. Cizek (Ed.) *Setting performance standards: Concepts, methods, and perspectives*. Mahwah, NJ: Lawrence Erlbaum, Publishers.
43. Kingston, N.M. (1993). Standard setting in compensatory versus non-compensatory licensure testing programs. *CLEAR Exam Review* 4:24-27.
44. Kingston, N.M. and Dorans, N.J. (1985). The analysis of item-ability regressions: An exploratory IRT model fit tool. *Applied Psychological Measurement* 9:281-288.
45. Dorans, N.J. and Kingston, N.M. (1985). The effects of violations of unidimensionality on the estimation of item and ability parameters and on item response theory equating of the GRE verbal scale. *Journal of Educational Measurement* 22:249-262.
46. Kingston, N.M. and Dorans, N.J. (1984). Item location effects and their implications for IRT equating and adaptive testing. *Applied Psychological Measurement* 8:147-154.

**Book Chapters** (\*indicates student, at time of publication, with whom I collaborated)

1. Kingston, N.M., Hess, J., Cope, D., Romine, R.S. (accepted). On Determining the Efficacy of Using Learning Maps as an Organizing Structure for Formative Assessment: Some Lessons Learned in Hong Jiao and Robert Lissitz (Eds.) *Enhancing Effective Instruction and Learning Using Assessment Data*. Charlotte, NC: Information Age Publishing
2. Karvonen, M., Kingston, N.M., Wehmeyer, M. & Thompson, W.J. (accepted). New approaches to designing and administering inclusive assessments. *Oxford Research Handbook of Special and Inclusive Education*.
3. Karvonen, M., Wakeman, S., & Kingston, N.M. (2017). Alternate Assessment in Michael L. Wehmeyer & Karrie Shogren (Eds.) *Research-based practices for educating students with intellectual disabilities*. New York: Routledge.
4. Kingston, N.M. & Clark, A.K. (2014). Introduction in Neal M. Kingston and Amy K. Clark (Eds.) *Test Fraud: Statistical Detection and Methodology*. New York: Routledge.
5. Clark, A.K. & Kingston, N.M. (2014). A Brief History of Research on Test Fraud Detection and Prevention in Neal M. Kingston and Amy K. Clark (Eds.) *Test Fraud: Statistical Detection and Methodology*. New York: Routledge.
6. \*Tiemann, G.C. & Kingston, N.M. (2014). An Exploration of Answer Changing Behavior on a Computer-Based High-Stakes Achievement Test in Neal M. Kingston and Amy K. Clark (Eds.) *Test Fraud: Statistical Detection and Methodology*. New York: Routledge.
7. Kingston, N.M. (2013). Educational Testing Case Studies. In James Wollack and John Fremer (Eds.), *Handbook of Test Security*. New York: Routledge.
8. Kingston, N.M., \*Scheuring, S.T., & Kramer, L.B. (2013). Test Development Strategies. In Kurt Geisinger (Ed.) *APA Handbook of Testing and Assessment in Psychology*. Washington, DC: APA Books.
9. Kingston, N.M. & Kramer, L.B. (2013). High Stakes Test Construction and Test Use. In T. Little (Ed.) *Oxford Handbook of Quantitative Methods*. Oxford University Press.

10. Kingston, N.M. & \*Tiemann, G.C. (2011) Setting Performance Standards on Complex Assessments: The Body of Work Method. In G.J. Cizek (Ed.) Setting performance standards: Concepts, methods, and perspectives, Second Edition. Mahwah, NJ: Lawrence Erlbaum.
11. Kingston, N.M. and Reidy, E. (1997). Kentucky's accountability and assessment systems. In J. Millman (Ed.). Grading teachers, grading schools: Is student achievement a valid evaluation measure? Thousand Oaks, CA: Corwin Publishers.
12. Kingston, N.M. and Reidy, E. (1997). KIRIS meets the critics: A little light and much heat. In J. Millman (Ed.). Grading teachers, grading schools: Is student achievement a valid evaluation measure? Thousand Oaks, CA: Corwin Publishers.

### **Under Submission**

1. Saatcioglu, A., Skrtic, T.M., & Kingston, N.M. (submitted). Opportunity losses in education in the proficiency-based accountability era: A state-level analysis of skill range restriction in NCLB's peak years.
2. Davis, M.H., Wang, W., Tonks, S., Hock, M. & Kingston, N.M., Hock, M., & Tiemann, G. (submitted). Investigating the Dimensionality and Internal Structure of Reading Motivation.
3. Davis, M.H., Wang, W. Tonks, S., Hock, M. & Kingston, N.M. (submitted). Gender and Grade Differences on Reading Motivation, Behavior, Engagement, and Achievement Scales and Strength of Relationships among the Scales. Learning and Individual Differences.

### **Technical Reports and Other Minor works** (\* indicates student, at time of publication, with whom I collaborated)

1. Kingston, N.M. & \*Thompson, W.J. (2016). The Use of Evidence Centered Design for Developing a New Edition of the NCLEX.
2. Kingston, N.M., Wang, W., Davis, M., Tonks, S., Tiemann, G. & Hock, M. (2016). Development of the Adaptive Reading Motivation Measures.
3. Kingston, N. (2015). Shifting the Paradigm of Large-Scale Achievement Assessment. In Rice, M. and Haaheim, E., eds., Merrill Advanced Studies Center White Paper No. 119: Research Innovation as a Pathway to the Future (51). Lawrence, KS: University of Kansas Merrill Advanced Studies Center.
4. Clark, A. & Kingston, N. (2014). Comparison of Attribute Coding Procedures for Retrofitting Cognitive Diagnostic Models
5. Clark, A., Kingston, N., Templin, J., & Pardos, Z. (2014). Summary of results from the fall 2013 pilot administration of the Dynamic Learning Maps® Alternate Assessment System
6. Kingston, N.M. (2014). The value of standard setting: A personal meandering. NCME Newsletter 22(4):7.
7. Almond, P., Kingston, N., Michaels, H., Roeber, E., Warren, S., Winter, P., & Mark, C. (2012). Technical considerations for developing assessments that include special populations and are based on organized learning models. Menlo Park, CA: SRI International and Lawrence, KS: Center for Educational Testing and Evaluation.
8. Kingston, N.M. (2012). It's 1938: A look back at the first year of NCME. NCME Newsletter 20(3):2-3.

9. Kingston, N.M. (2012). NCME Presidential Trivia. NCME Newsletter 20(4):6, 9.
10. Kingston, N., Chin, T., Geisinger, K., and McKinley, R. (2010). Final Report, Third Party Equating Verification of the NYS Grades 3-8 ELA and Mathematics Tests, Buros Institute for Assessment Consultation and Outreach.
11. Bechard, S., Sheinker, J., Abell, R., Barton, K., Blackorby, J., Burling, K., Camacho, C., Cameto, R., Haertel, G., Hansen, E., Johnstone, C., Kingston, N., Murray, E., Parker, C., Redfield, D., Rodriquez, J., and Tucker, B. (2010). Measuring Cognition of Students with Disabilities Using Technology-Enabled Assessments: Recommendations for a Research Agenda. Dover, NH: Measured Progress, and Menlo Park, CA: SRI International.
12. Irwin, P.M., Kingston, N.M., Skorupski, W.P., Glasnapp, D.R., & Poggio, J.P. (2009). Technical Manual for the Kansas Assessments in Science.
13. Peyton, V., Kingston, N.M., Skorupski, W., Glasnapp, D.R., and Poggio, J.P. (2009). Kansas English Language Proficiency Assessment (KELPA) Technical Manual.
14. Irwin, P.M., Kingston, N.M., Glasnapp, D.R., & Poggio, J.P. (2008). Technical Manual for the Kansas Assessments of Modified Measures (KAMM) and Kansas Alternate Assessments (KAA) in Science.
15. \*Tiemann, G.C. and Kingston, N.M. (2010). Non-Directional hypothesis testing. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
16. Kingston, N.M. (2010). Sequential Tests of Statistical Hypotheses (Wald) [The Annals of Mathematical Statistics, 16, 2, 117]. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
17. Kingston, N.M. (2010). Computerized adaptive testing. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
18. Kingston, N.M. and \*Tiemann, G.C. (2010). Spearman Brown prophecy formula. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
19. \*Chen, J., Kingston, N.M., \*Tiemann, G. & \*Gu, F. (2010). Hypothesis. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
20. \*Gu, F. and Kingston, N.M. (2010). Scatterplot. In N. Salkind (Ed.) Encyclopedia of Research Design. Thousand Oaks, CA: Sage Publishing.
21. Kingston, N.M. (2009). SAT. In B. Kerr (Ed.) Encyclopedia of Giftedness, Creativity, and Talent. Thousand Oaks, CA: Sage Publishing.
22. Kingston, N.M. (2009). ACT College Admissions Test. In B. Kerr (Ed.) Encyclopedia of Giftedness, Creativity, and Talent. Thousand Oaks, CA: Sage Publishing.
23. Kingston, N.M. (2009). Self-report instruments. In S. Lopez (Ed.) Encyclopedia of Positive Psychology. Malden, MA: Blackwell Publishing.
24. Kingston, N.M. (2008). Standardized tests. In N. Salkind (Ed.) Encyclopedia of Educational Psychology. Thousand Oaks, CA: Sage Publishing.
25. Kingston, N.M. (2008). Norm-Referenced tests. In N. Salkind (Ed.) Encyclopedia of Educational Psychology. Thousand Oaks, CA: Sage Publishing.
26. Dings, J., Childs, R., and Kingston, N.M. (2002). Effects of matrix sampling on student score comparability in constructed response and multiple-choice assessments. Washington, DC: Council of Chief State School Officers.
27. Dings, J., Gong, B., & Kingston, N. (1995) KIRIS Accountability Cycle I Technical Manual. Frankfort, KY: Kentucky State Department of Education.
28. Kingston, N.M. (1991). Book review: Educational Measurement, Third Edition. Applied Psychological Measurement, v15 n2 p207-216.



29. Kingston, N.M., Leary, L., and Wightman, L. (1988). An exploratory study of the applicability of item response theory methods to the Graduate Management Admissions Test. Los Angeles: Graduate Management Admissions Council.
30. Schaeffer, G.A. and Kingston, N.M. (1988). Strength of the analytical factor of the GRE General Test in several subgroups: a full-information factor analysis approach. RR 88-5. Princeton, N.J.: Educational Testing Service.
31. McKinley, R.L. and Kingston, N.M. (1987). Exploring the use of IRT equating for the GRE Subject Test in Mathematics. RR 87-21. Princeton, N.J.: Educational Testing Service.
32. Kingston, N.M. (1986). Assessing the dimensionality of the GMAT Verbal and Quantitative Measures using full-information factor analysis. RR 86-13. Princeton, N.J.: Educational Testing Service.
33. Kingston, N.M. and Holland, P.W. (1986). Alternative methods of equating the GRE General Test. GRE Board Professional Report 81-16P. Princeton, N.J.: Educational Testing Service.
34. Kingston, N.M., Leary, L.F., and Wightman, L.E. (1985). An exploratory study of the applicability of item response theory methods to the Graduate Management Admission Test. RR 85-34. Princeton, N.J.: Educational Testing Service.
35. Kingston, N.M. and Turner, N.J. (1984). Analysis of score change patterns of examinees repeating the Graduate Record Examinations General Test. GRE Board Professional Report 83-5P. Princeton, N.J.: Educational Testing Service.
36. Kingston, N.M. (1984). Reanalysis of the psychometric characteristics of the GRE General Test. Unpublished manuscript. Princeton, N.J.: Educational Testing Service.
37. Kingston, N.M. (1983). Choosing a procedure for selecting a subset of variables that maximizes criterion-related cross-validity. Unpublished doctoral dissertation.
38. Kingston, N.M. and Dorans, N.J. (1982). The feasibility of using item response theory as a psychometric model for the GRE Aptitude Test. GRE Board Professional Report 79-12P. Princeton, N.J.: Educational Testing Service.
39. Kingston, N.M. and Dorans, N.J. (1982). The effect of the position of an item within a test on item responding behavior: an analysis based on item response theory. GRE Board Professional Report 79-12bP. Princeton, N.J.: Educational Testing Service.
40. Kingston, N.M. and Livingston, S.A. (1981). Effectiveness of the Graduate Record Examinations for predicting first year grades: 1979-80 summary report of the Graduate Record Examinations Validity Study Service. Princeton, N.J.: Educational Testing Service.

### **Scholarly Presentations** (\* indicates student with whom I have collaborated)

1. Kingston, N.M. (2019, November). Use of learning maps as an organizing structure for formative assessment. Invited presentation at the Maryland Assessment Research Center Conference, College Park, MD.
2. Clark, A.K. & Kingston, N.M. (2019, April). Diagnostic Assessment Results: Instructional Uses and Potential Pitfalls. Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON.
3. Karvonen, M., Clark, A. K., Swinburne Romine, R., & Kingston, N.M. (2019, April). Development and evaluation of diagnostic score reports: Process and recommendations. Paper presented at the annual meeting of the American Educational Research Association, Toronto, ON.

4. \*Pan, Q. & Kingston, N.M. (April 2018). Growth Modeling in a Diagnostic Classification Model (DCM) Framework. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
5. Clark, A.K., Karvonen, M., Swinburne Romine, R., & Kingston, N.M. (April 2018). Teacher use of Score Reports for Instructional Decision making: Preliminary Findings.
6. Heritage, M. & Kingston, N.M. (October 2017). Classroom assessment and large-scale psychometrics: shall the twain meet? (a conversation with Margaret Heritage and Neal Kingston). Opening keynote session at the NCME Special Conference on Classroom Assessment.
7. Karvonen, M., Swinburne Romine, R., Clark, A. K., \*Brussow, J. & Kingston, N. (2017, April). Promoting accurate score report interpretation and use for instructional planning. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
8. Kingston, N.M. and Broaddus, A. (August 2016). The use of learning maps to support formative assessment. Paper presented at the International Association for Educational Assessment Conference, Cape Town, South Africa.
9. Karvonen, M., Clark, A. K., & Kingston, N. (2016, April). Alternate assessment score report interpretation and use: Implications for instructional planning. Paper presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
10. Kingston, N.M., Karvonen, M., Bechard, S., & Erickson, K. (April 2016). Systems Thinking in the Development of the Dynamic Learning Maps Alternate Assessment. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.
11. Kingston, N.M. (April 2016) It's the End of Testing as We Know It and I Feel Fine. (April 2016), Paper presented at the annual meeting of the National Council for Measurement in Education, Washington, DC.
12. \*Qian, H., \*Trang, K. & Kingston, N.M. A (April 2016). Meta-Analysis of the Predictive Validity of the Graduate Management Admissions Test. Paper presented at the annual meeting of the National Council for Measurement in Education, Washington, DC.
13. Kingston, N.M. (October 2015) Stay Found: How Maps can Improve Outcomes in Education. Presentation at KU Elevate, Overland Park, KS.
14. Tonks, S. M., Schwartz, J., Rodriguez, A., Davis, M., Hock, M., & Kingston, N. (October 2015). A new adaptive measure of adolescent reading motivation in school. Paper presented at the Illinois Education Research Symposium, Lisle, IL.
15. Kingston, N.M., Broaddus, A., & Gaylor, C. (August 2015). Shifting the Paradigm of Achievement Assessment or Help!; I'm Lost; Does Anyone Have a Map? Paper presented at the 2015 CRESST Conference, Redondo Beach, CA.
16. Clark, A. K., Karvonen, M., Kingston, N., Anderson, G., & Wells-Moreaux, S. (April 2015). Designing Alternate Assessment Score Reports that Maximize Instructional Impact. Paper presented at the annual meeting of the National Council for Measurement in Education, Chicago, IL.
17. Kingston, N.M. (April 2015). Standard Setting and Growth Measurement in a Learning Maps Environment. Presented as part of the symposium, Psychometrics in a Learning Maps Environment, at the annual meeting of the National Council for Measurement in Education, Chicago, IL.

18. Popham, J., Kingston, N.M., Fremer, J., & Way, D. (April 2015). The importance of instructional sensitivity: A colloquy Among Combatants. Debate at the annual meeting of the National Council for Measurement in Education, Chicago, IL.
19. \*Loughran, J. & Kingston, N.M. (April 2015). DIF Detection and Prediction with Different Focal Group Designations. Paper presented at the annual meeting of the National Council for Measurement in Education, Chicago, IL.
20. Wells-Moreaux, S., Karvonen, M., & Kingston, N.M. (April 2015). Accessibility by Design: Improving Alternate Assessments for Students with Significant Cognitive Disabilities. Paper presented at the annual meeting of the Council for Exceptional Children, San Diego, CA.
21. Kingston, N.M. & Broaddus, A. (March 2015). Learning Maps as the Basis for Educational Assessment. Paper presented at the annual meeting of the Association of Test Publishers, Rancho Mirage, CA.
22. Kingston, N.M. (March 2015). Security at the Forefront. Invited Speaker at the annual meeting of the Association of Test Publishers, Rancho Mirage, CA.
23. Kingston, N.M. (January 2015). The Dynamic Learning Maps Alternate Assessment System. Paper presented at the annual meeting of the National Association of Private Special Education Centers, New Orleans, LA.
24. \*Tiemann, G.C., Miller, H., Kingston, N.M., & Foster, D. (October 2014). Protecting Item Content via the Discrete-Option Multiple-Choice Item Type. Paper presented at the annual meeting of the Conference on Test Security, Iowa City, IA.
25. Kingston, N.M.; Clark, A.K., Pardos, Z; Lee, S.Y. (April 2014). Determining a reasonable starting place for an instructionally embedded dynamic assessment: Heuristic versus Bayesian Network Analysis. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
26. Clark, A. K. & Kingston, N. M. (April 2014). Comparison of attribute coding procedures for retrofitting cognitive diagnostic models. Poster presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
27. Zhao, F. & Kingston, N.M. (April 2014). Cognitive Diagnostic Model Comparisons Using Empirical Data. Paper presented at the annual meeting of the National Council for Measurement in Education, Philadelphia, PA.
28. Wang, W. & Kingston, N.M., Michael F. Hock; Gail C. Tiemann; Marcia H. Davis; Stephen M. Tonks (April 2014). Application of the Hierarchical Item Response Model to a Computer Adaptive Test of Graded Response Data. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
29. Chen, J., Kingston, N., Wang, X., Richards, C., & Meisner, R. (April, 2014). Features of essay responses associated with the accuracy of human scoring. Paper presented at the 76th Annual Meeting of National Council on Measurement in Education, Philadelphia, PA.
30. Chen, J. & Kingston, N.M. (November 2013). A Comparison of Empirical and Judgmental Approaches for Detecting Instructionally Sensitive Items. Paper presented at the Conference on Instructional Sensitivity, Lawrence, KS.
31. Longabach, T., Chen, J. & Kingston, N.M. (November 2013). Relationship between test item cognitive complexity, content, and instructional sensitivity. Paper presented at the Conference on Instructional Sensitivity, Lawrence, KS.
32. Kingston, N.M. (October 2013). Development of an Assessment for Students with Significant Cognitive Disabilities Based on a Very Large, Fine Grained Learning Map.

- Paper presented at the 2013 meeting of the International Association for Educational Assessment, Tel Aviv, Israel.
33. Kingston, N.M. (June 2013). Design, Implementation, and Use of Within Year Assessments: The Dynamic Learning Maps Approach. Comenius University, Bratislava, Slovakia.
  34. \*Tiemann, G.C. & Kingston, N.M. (2013). Answer changing and response time on computer-based high stakes achievement tests. Poster presented at the 2013 Conference on the Statistical Detection of Potential Test Fraud, Madison, WI.
  35. Kingston, N.M. & Nitsch, C. (2013) How in the world can an alternate assessment meet the needs of students and parents? Invited presentation at the 2013 Arc National Convention, Seattle, WA.
  36. Kingston, N.M. (2013). Learning Models and Learning Analytics. Presented as part of the symposium, "It's not just for online shopping: Using analytics for improved learning and achievement. Invited presentation at the 2013 OSEP Project Directors Meeting.
  37. Davis, M.H., Tonks, S.M., Hock, M.F., Kingston, N.M., \*Tiemann, G.C. & Wang, W. Measurement of Adolescent Reading Motivation. Poster presented at the 2013 meeting of the American Educational Research Association, San Francisco, CA.
  38. Davis, M.H., Tonks, S.M., Hock, M.F., Kingston, N.M., \*Tiemann, G.C. & Wang, W. Measuring Social Reading Motivation in Adolescents. (2013). Paper presented at the 2013 meeting of the American Educational Research Association, San Francisco, CA.
  39. Kingston, N.M. (2013). The Alternate Assessment Consortia for Students with Significant Cognitive Disabilities: Progress to Date - PART 2. Paper presented at the 2013 meeting of the Council for Exceptional Children, San Antonio, TX.
  40. \*Beals-Erickson, S. & Kingston, N.M. Original and Adapted Dialectical Behavior Therapy for Adults versus Adolescents: A Meta-Analysis. (October 2012). Paper presented at the 2012 meeting of the National Conference on Clinical Child and Adolescent Psychology, Lawrence, KS.
  41. \*Wang, W. and Kingston, N.M. (August 2012). Are all item response functions monotonically increasing? Poster presented at the 2012 meeting of the American Psychological Association, Orlando, FL.
  42. Kingston, N.M. and \*Tiemann, G.C. (2012). An Exploration of Answer-Changing on a Computer-based High-Stakes Achievement Test: Item View. Paper presented at the Joint Statistical Meeting, San Diego, CA.
  43. \*Tiemann, G.C. and Kingston, N.M. (2012). An Exploration of Answer-Changing on a Computer-based High-Stakes Achievement Test. Paper presented at the Conference on the statistical detection of potential test fraud, Lawrence, KS.
  44. \*Anderson, G. and Kingston, N.M. (2012). Providing Useful Information to Guide Student Learning: A Review of State Level Individual Student Reports. Paper presented at the 2012 Annual Convention of the National Council on Measurement in Education (NCME), Vancouver, Canada.
  45. \*Chen, J., Kingston, N.M. (2012). A Comparison of Mantel-Haenszel Tests and Logistic Regression for Detecting Instructionally Sensitive Items. Poster presented at the 2012 Annual Convention of the National Council on Measurement in Education (NCME), Vancouver, Canada.
  46. \*Zhao, F., \*Wang, W., & Kingston, N. M. (2012). On the Use of Nonparametric IRT Techniques for Checking 3PL IRT Model Fit. Paper presented at the 2012 Annual Convention of the National Council on Measurement in Education (NCME), Vancouver, Canada.

47. \*Zheng, C., Erickson, A. G., Kingston, N., & Noonan, P. (April 2012). Can Self-Determination Predict Academic Achievement for Students with Disabilities? Paper presented at American Educational Research Association, Vancouver, Canada.
48. \*Zheng, C., Erickson, A. G., Kingston, N., & Noonan, P. (April 2012). Psychometric Analysis of the Arc's Self-Determination Scale for Students with Disabilities. Paper presented at National Council on Measurement in Education, Vancouver, Canada.
49. Cho, H. & Kingston, N.M. (April 2012). Understanding Alternate Assessment Misassignment and How to Prevent It. Paper presented at the annual meeting of the Council for Exceptional Children, Denver, CO.
50. Cho, H. J., & Kingston, N. (April, 2012). Examining the effectiveness of test accommodation using DIF and a mixture IRT Model. Paper presented to annual meeting of the American Education Research Association: Vancouver, Canada.
51. Templin, J., Kingston, N.M., & \*Wang, W. (October 2011). Psychometric Issues in Formative Assessment: Measuring Student Learning Throughout the Academic Year Using Interim Assessments. Paper presented at the Maryland Assessment Conference, College Park, MD.
52. Kingston, N.M., \*Wang, W., \*Broaddus, A., & Kramer, L. (August 2011). Kansas Interim Assessment Validity Evidence Based on the Relationship between Interim and Summative Assessment Scores. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
53. \*Broadus, A., Kingston, N.M., & Kramer, L. (August 2011). Validity Evidence Based on the Consequences of Interim Assessments. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
54. Kramer, L. Kingston, N.M., & \*Broadus, A., (August 2011) Validity Evidence Based on Interim Assessment Content. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
55. \*Wang, W., McKinley, R., Kingston, N.M., & \*Broaddus, A. (August 2011). Validity Evidence Based on the Internal Structure of an Interim Assessment. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
56. Kingston, N.M. (August 2011). Alignment of Common Core Standards and Alternate Assessments for Students with the Most Significant Cognitive Disabilities. Office of Special Education Programs Leadership Mega Conference, Alexandria, VA.
57. Kingston, N.M. (June 2011). Preparing ALL Students for life, work, and citizenship: The next generation of alternate assessments. Office of Special Education Programs Project Directors' Conference, Washington, DC.
58. Kingston, N.M. (June 2011). Preparing ALL Students for life, work, and citizenship: The next generation of alternate assessments. National Conference on Student Assessment, Orlando, FL.
59. Cho, H.J. & Kingston, N.M. (April 2011). Capturing Implicit Policy from NCLB Test Type Assignments. Annual meeting of the Council for Exceptional Children. Washington, DC.
60. \*Zhao, F. & Kingston, N.M. (April 2011). The Effects of Phonological Awareness on Bilingual/ESL Students' Early Literacy Development. Annual meeting of the American Educational Research Association, New Orleans, LA.
61. \*Anderson, G. & Kingston, N.M. (April 2011). The Efficacy of Using State Standards-Based Assessments for Predicting Student Success in Community College Classes. Annual meeting of the National Council on Measurement in Education, New Orleans, LA.

62. \*Kim, M. & Kingston, N.M. (April 2011). The Efficacy of Curriculum-based measurement: A Meta-Analysis. Annual meeting of the American Educational Research Association, New Orleans, LA.
63. \*Chiu, P., Irwin, P., & Kingston, N.M. (May 2010). How Much Time does a Test-Taker Take if a Test-Taker does Take Time? National Council on Measurement in Education, Denver, CO.
64. Wolkowitz, A. Templin, J. & Kingston, N.M. (May 2010). An Analysis of the Time and Day of the Week that Students Perform Best on Assessments. National Council on Measurement in Education, Denver, CO.
65. \*Gu, F. Little, T., Kingston, N.M. (May 2010) Coefficient Alpha and Structural Equation Modeling Based Reliability Estimates under the Violation of Essential Tau-Equivalence and Uncorrelated Errors: A Simulation Study. American Educational Research Association, Denver, CO.
66. Kingston, N.M., Foster, D., Miller, H.L., & \*Tiemann, G. (February 2010). Building a Better Mousetrap: Using Discrete Options to Improve the Multiple-Choice Question. Association of Test Publishers.
67. Kingston, N.M. (October 2009). Formative, Schmormative or I just want to help my students learn (and maybe do better on those darn state tests). Kansas Fall Assessment Conference.
68. Kingston, N.M. (October 2009). The Role of a Shared Item Bank in the Re-invention of the Modified Assessment in Kansas. Kansas Fall Assessment Conference.
69. Kingston, N.M. (October 2009). Interim assessment as an integral part of a state assessment program. Kansas Fall Assessment Conference.
70. Kingston, N.M. (June 2009). Large-Scale Formative Assessment: Panacea, Transitional Tool, or Oxymoron. 39th annual National Conference on Student Assessment, Los Angeles, CA.
71. Kingston, N.M. and \*Nash, B. (April 2009). The Efficacy of Formative Assessment: A Meta-Analysis. American Educational Research Association, San Diego, CA.
72. Kingston, N.M. and \*Zhao, F. (April 2009). What Have We Learned about the Structure of Learning from 30 Years of Research on Integrated Cognitive-Psychometric Models? Not Much. National Council on Measurement in Education, San Diego, CA.
73. Kingston, N.M. (June 2008). Advances in Formative Assessment: A Brief Background. 38th annual National Conference on Student Assessment, Orlando, FL
74. Kingston, N.M. (May 2008). The Anatomy of a Scoring: A Forensic Analysis of the Grading of an Open-Ended Test Item. King Fahd University of Petroleum and Minerals, Dharhan, Saudi Arabia.
75. Kingston, N.M. (May 2008). Considerations for the Development and Use of Open-Ended Test Items, King Fahd University of Petroleum and Minerals, Dharhan, Saudi Arabia.
76. Kingston, N.M. (April 2007). Comparability of Computer- and Paper-Administered Multiple-Choice Tests for K-12 Populations: A Synthesis of 89 Studies. National Council on Measurement in Education, Chicago, IL.
77. Kingston, N.M. (2005). Hot topics in testing. CASMA-ACT Invitational Conference, Iowa City, IA.
78. Kingston, N.M. (2004). Alternative approaches to the implementation of computerized statewide accountability testing systems. 34th annual Large-Scale Assessment Conference of the Chief Council of State School Officers, Boston, MA.

79. Kingston, N.M. (2003). K-12 computer-based testing: is there a place for data in the implementation decision-making process? 33rd annual Large-Scale Assessment Conference of the Council of Chief State School Officers, San Antonio, TX.
80. Kingston, N.M. and Ehringhaus, M. (2002). The future of universal design (or since it is already tomorrow why can't we use yesterday's technology yet?). Gallaudet Research Institute Conference – High Stakes Testing: Are Deaf and Hard of Hearing Students Being Left Behind? Washington, DC.
81. Kingston, N.M. (2002). Item review 101: reviewing items and tests from multiple perspectives. 32nd annual Large-Scale Assessment Conference of the Council of Chief State School Officers, Palm Desert, CA.
82. Kingston, N.M. (2002). Comparability of scores from computer- and paper-based administrations for students in grades K-12. 32nd annual Large-Scale Assessment Conference of the Council of Chief State School Officers, Palm Desert, CA.
83. Kingston, N.M. (2002). Georgia CRCT: The largest, most comprehensive K-12 web-based testing system goes operational. 32nd annual Large-Scale Assessment Conference of the Council of Chief State School Officers, Palm Desert, CA.
84. Dings, J., Childs, R., and Kingston, N.M. (2002). Effects of matrix sampling on student score comparability in constructed response and multiple-choice assessments. National Council for Measurement in Education, Seattle, WA.
85. Kingston, N.M. (2001). Evaluating the validity and defensibility of the body of work standard setting procedure. 31st annual Large-Scale Assessment Conference of the Council of Chief State School Officers, Houston, TX.
86. Kingston, N.M. (2001). Implications of matrix sampling for state testing programs. 31st annual Large-Scale Assessment Conference of the Council of Chief State School Officers, Houston, TX.
87. Kingston, N.M., (2000). Dodging bullets: minimizing the probability of analysis and reporting problems. 30th annual Large-Scale Assessment Conference, Snowbird, UT.
88. Kingston, N.M., (2000). Combining multiple sources of information in the setting of performance standards. 30th annual Large-Scale Assessment Conference, Snowbird, UT.
89. Kingston, N.M. (2000). Accountability through school report cards: efforts of several states. 30th annual Large-Scale Assessment conference, Snowbird, UT.
90. Kingston, N.M., (2000), Body of work standard setting method: Massachusetts Comprehensive Assessment System. National Council on Measurement in Education Annual Meeting, New Orleans, LA.
91. Sweeney, K., Kahl, S.R., Kingston, N.M., Bay, L. (2000) Classroom Teacher Judgment and Body of Work Method: Wyoming Comprehensive Assessment System (WyCAS). Annual meeting of the American Research Association, New Orleans, LA.
92. Kingston, N.M. and Nellhaus, J. (1999). Standard-setting for the Massachusetts Comprehensive Assessment System: the body of work method. 29th annual Large-Scale Assessment conference, Snowbird, UT.
93. Kingston, N.M. (1998). Development of a prototype of a computerized accommodations version of a standards-based assessment. 28th annual Large-Scale Assessment Conference, Colorado Springs, CO.
94. Kingston, N.M. (1998). Assessing adequate yearly progress in a standards-based comprehensive testing environment: holy grail or holy terror. 28th annual Large-Scale Assessment Conference, Colorado Springs, CO.

95. Kingston, N.M. (1997). Scoring student responses through imaging: Evidence that new technology will solve a major concern of performance assessment. 27th annual Large-Scale Assessment Conference, Colorado Springs, CO.
96. Kingston, N.M. (1996). Responding to criticisms of performance assessment. Council of Chief State School Officers 26th annual Large-Scale Assessment Conference, Phoenix, AZ.
97. Dings, J. and Kingston, N.M. (1996). Effects of students and tasks on gain scores used in complex school accountability decisions. National Council for Measurement and Evaluation, New York, NY.
98. Kingston, N.M. and Dings, J. (1995). Estimating the accuracy of complex school accountability decisions. Symposium: Performance assessment: the rhetoric meets the reality (and they are both doing quite fine, thank you). National Council for Measurement and Evaluation, San Francisco, CA.
99. Kehoe, J.F., Kingston, N.M., and McCormick, D.J. (1993). Practical considerations for low-cost computerized testing. Symposium: Computer and multimedia testing for new skills and abilities: Practical issues. Society for Industrial and Organizational Psychology, San Francisco, CA.
100. Kingston, N.M. (1993). Increasing opportunity via technology-based testing. Symposium: Assessment, diversity, and America 2000. American Counseling Society, Atlanta, GA.
101. Kingston, N.M. (1989). An investigation of two types of selection effects on validity coefficients. Symposium: Alternative approaches to problems involved in the validation of higher education admission tests. National Council on Measurement in Education, San Francisco, CA.
102. Kingston, N.M., Schneider, L.M., and Briel, J.B. (1988). Overcoming statistical difficulties in comparing the predictive accuracy of the GRE General Test and undergraduate grades for subgroups based on gender and ethnicity. Symposium: Solving perennial methodological problems in validity research. American Psychological Association, Atlanta, GA.
103. Kingston, N.M. (1988). Using an English language graduate admissions test for non-native speakers of English: perils and pitfalls. National Association for Foreign Student Affairs, Washington, DC.
104. Kingston, N.M. (1988). Use of GRE scores and the undergraduate grade-point average to predict graduate school success. American Association of Collegiate Registrars and Admissions Officers, Nashville, TN.
105. Kingston, N.M. and McKinley, R.L. (1988). Assessing the structure of the GRE General Test using confirmatory multidimensional item response theory. Symposium: Item response theory meets multidimensional tests. American Educational Research Association, New Orleans, LA.
106. McKinley, R.L. and Kingston, N.M. (1988). Confirmatory analysis of test structure using multidimensional IRT. National Council on Measurement in Education, New Orleans, LA.
107. Kingston, N.M. and Stocking, M.L. (1986). Psychometric issues for IRT-based test construction. Symposium: Item response theory based test development. American Psychological Association, Washington, DC.
108. Kingston, N.M., Durso, R.V., and Schneider, L.M. (1986). The Graduate Record Examinations Validity Study Service: yesterday and tomorrow. Symposium: Designing a



- validity research service. National Council on Measurement in Education, San Francisco, CA.
109. Kingston, N.M. (1985). Comparison of bias and root mean squared error for four variants of IRT true score equating. Fourth European Meeting of the Psychometric Society, Cambridge, England.
  110. Kingston, N.M. (1985). Assessing guessing behavior using the three-parameter logistic model. Symposium: Dynamics of guessing behavior: methodological approaches. National Council on Measurement in Education, Chicago, IL.
  111. Kingston, N.M. (1985). The incremental validity of the GRE analytical measure for various department types. Symposium: The GRE Analytical Test: New measure for graduate school decision making. American Educational Research Association, Chicago, IL.
  112. Kingston, N.M. (1984). Analysis of shifts in scale and construct through the use of repeater data. American Educational Research Association, New Orleans, LA.
  113. Kingston, N.M. and Dorans, N.J. (1983). Assessing local independence for IRT: factor analysis of item intercorrelations after partialing out estimated theta. Psychometric Society, Los Angeles, CA.
  114. Kingston, N.M. and Dorans, N.J. (1982). Equating of GRE Aptitude Test scores using item response theory: the effect of multidimensionality. Symposium: Recent developments in equating at ETS. American Psychological Association, Washington, DC.
  115. Dorans, N.J. and Kingston, N.M. (1982). Implications of item pool fungibility for innovative testing modes and equating methods. Symposium: Topics in item response theory. Psychometric Society, Montreal.
  116. Kingston, N.M., Livingston, S.A., and Turner, N.J. (1982). Predicting success in graduate school: 189 validity studies. Symposium: Interpreting data through eternally smudged glasses: the continuing saga of graduate and professional school validation research. American Educational Research Association, New York, NY.
  117. Dorans, N.J. and Kingston, N.M. (1981). Assessing the local independence assumption of item response theory in GRE item types and populations. Psychometric Society, Chapel Hill, NC.
  118. Kingston, N.M. and Dorans, N.J. (1981). The effect of the position of an item within a test on item responding behavior: an analysis based on item response theory. Symposium: Practice effects: problems and solutions. National Council on Measurement in Education, Los Angeles, CA.
  119. Kingston, N.M. and Dorans, N.J. (1981). Would it be advantageous to use the three-parameter logistic model as a psychometric base for the GRE Aptitude Test? Symposium: Assessing the feasibility of using item response theory for operational testing programs. American Educational Research Association, Los Angeles, CA.
  120. Kingston, N.M. and White, E.B. (1980). Item response theory statistics, classical test and item statistics: what does it all mean when you sit down to construct a test? American Educational Research Association, Boston, MA.

**Patent Applications** (both were defensive applications – patent application published but never awarded)

1. Ashley, E., Enslin, R., Kingston, N., Torres, C., Wozmak, D., & Willett, M. (2004). Computer-based standardized test administration, scoring and analysis system. Pub. No.: US 2004/0229199A1

2. Sable, P., Houle, S., & Kingston, N.M. (2003). Structured observation system for early literacy assessment. Pub. No.: US 2003/0104344 A1

### Grants and/or other Funded Projects

**External, Funded Proposals** (185 grants valued at \$230.5 million as PI or Co-PI from 2009 to December 2019)

1.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps, Additional Services, Washington DC, Office of the State Superintendent of Education. (2019-2020).	\$19,096	Sole Source
2.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Miccosukee Indian School, US Department of the Interior. (2019-2020).	\$4,032	Sole Source
3.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps, Operational Testing - Science, Office of the State Superintendent of Education. (2019-2020).	\$246,120	Sole Source
4.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps, Additional Services, Maryland State Department of Education. (2019-2020).	\$119,081	Sole Source
5.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps, Testing and Consortium, Maryland State Department of Education. (2019-2020).	\$270,000	Sole Source
6.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Testing Services, North Dakota Department of Public Instruction. (2019-2020).	\$164,500	Sole Source
7.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, New Mexico Public Education Department. (2019-2020).	\$500,000	Sole Source
8.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, New Mexico Public Education Department. (2019-2020).	\$634,260	Sole Source
9.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, New Mexico Public Education Department. (2019-2020).	\$166,667	Sole Source
10.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, New Mexico Public Education Department. (2019-2020).	\$156,240	Sole Source
11.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services & Consortium, Delaware Department of Education. (2019-2020).	\$468,000	Sole Source
12.	Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps DCPS FY20, Delaware Department of Education. (2019-2020).	\$40,045	Sole Source

13. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, Delaware Department of Education. (2019-2020).	\$112,939	Sole Source
14. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math), Colorado Department of Education (2019-2020).	\$888,000	Sole Source
15. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, West Virginia Department of Education (2019-2020).	\$618,000	Sole Source
16. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, Oklahoma State Department of Education. (2019-2020).	\$1,182,000	Sole Source
17. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, Oklahoma State Department of Education. (2019-2020).	\$498,678	Sole Source
18. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Social Studies, Oklahoma State Department of Education. (2019-2020).	\$34,496	Sole Source
19. Kingston, N.M. (P.I.). Kansas Summative Assessments (KAP), Kansas State Department of Education (2019-2020).	\$5,118,600	Sole Source
20. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Dynamic Learning Maps Testing Services, Kansas Department of Education. (2019-2020).	\$746,400	Sole Source
21. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, New Jersey Department of Education. (2019-2020).	\$1,983,000	Sole Source
22. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, New Jersey Department of Education. (2019-2020).	\$60,755	Sole Source
23. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, Wisconsin Department of Public Education. (2019-2020).	\$32,160	Sole Source
24. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Social Studies, Wisconsin Department of Public Education. (2019-2020).	\$29,505	Sole Source
25. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, ELA/Math, Science, Iowa Department of Education. (2019-2020).	\$726,940	Sole Source
26. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Consortium, Wisconsin Department of Public Education. (2019-2020).	\$1,350,000	Sole Source
27. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, Missouri Department of Elementary/Secondary Education. (2019-2020).	\$1,350,000	Sole Source
28. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Additional Services, Missouri Department of Elementary/Secondary Education. (2019-2020).	\$375,322	Sole Source

29. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, Alaska Department of Education & Early Development. (2019-2020).	\$18,300	Sole Source
30. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, Alaska Department of Education & Early Development. (2019-2020).	\$402,000	Sole Source
31. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Services, Arkansas Department of Education. (2019-2020).	\$1,205,594	Sole Source
32. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, Arkansas Department of Education. (2019-2020).	\$166,667	Sole Source
33. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Consortium, Arkansas Department of Education. (2019-2020).	\$300,000	Sole Source
34. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing Consortium, New Hampshire Department of Education. (2019-2020).	\$450,300	Sole Source
35. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, Washington, D.C. Department of Education. (2018-2019).	\$167,000	Sole Source
36. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Washington, D.C. Department of Education. (2018-2019).	\$249,146	Sole Source
37. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Wisconsin Department of Education. (2018-2019).	\$1,382,160	Sole Source
38. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Social Studies Development, Wisconsin Department of Education. (2018-2019).	\$47,535	Sole Source
39. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Miccosukee Indian School, US Department of the Interior. (2018-2019).	\$4,032	Sole Source
40. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Alaska Department of Education. (2018-2019).	\$402,000	Sole Source
41. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, Alaska Department of Education. (2018-2019).	\$18,300	Sole Source
42. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps, US History Development, Oklahoma Department of Education. (2018-2019).	\$56,942	Sole Source
43. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Maryland State Department of Education. (2018-2019).	\$120,364	Sole Source

44. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing and Consortium Service Maryland State Department of Education. (2018-2019).	\$270,000	Sole Source
45. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), Illinois State Board of Education. (2018-2019).	\$2,263,500	Sole Source
46. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science) and Additional Services, Oklahoma State Department of Education. (2018-2019).	\$1,682,170	Sole Source
47. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps US History, Oklahoma State Department of Education. (2018-2019).	\$56,942	Sole Source
48. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science) and Additional Services, Iowa Department of Education. (2018-2019).	\$735,520	Sole Source
49. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Consortium Services, New Jersey State Department of Education. (2018-2019).	\$1,983,000	Sole Source
50. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Alternate Assessment Additional Services, New Jersey State Department of Education. (2018-2019).	\$60,775	Sole Source
51. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Development of DLM Assessments (ELA, Math, Science), and Additional Services, Wisconsin Department of Public Instruction. (2018-2019).	\$1,382,160	Sole Source
52. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Development of DLM Assessments, Social Studies, Wisconsin Department of Public Instruction. (2018-2019).	\$47,535	Sole Source
53. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), New Hampshire Department of Education. (2018-2019).	\$450,300	Sole Source
54. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), Science Development, Delaware Department of Education. (2018-2019).	\$672,396	Sole Source
55. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Delaware Department of Education. (2018-2019).	\$145,133	Sole Source
56. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps - Delaware Portfolio Communication Summary, Delaware Department of Education. (2018-2019).	\$35,470	Sole Source

57. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), Missouri Department of Education. (2018-2019).	\$1,350,000	Sole Source
58. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Additional Services, Missouri Department of Education. (2018-2019).	\$373,531	Sole Source
59. Kingston, N.M. (P.I.) and Martin, S.D. (Co-P.I.) Project Lead the Way End-of-Course Assessment Program (2018-2021)	\$11,974,355	Competitive
60. Murray, A. (P.I.) and Kingston, N.M. (Co-P.I.). Brady Education Foundation Montessori Initiative Research Network, Brady Education Foundation. (2018-2023).	\$499,974	Competitive
61. Kamatuka, N. (P.I.) and Kingston, N.M. (Co-P.I.). KCKPS GEAR UP Program District Wide, U.S. Department of Education. (2017-2024).	\$18,636,800	Competitive
62. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science) and Science Development, Rhode Island Department of Education. (2017-2022).	\$2,986,825	Sole Source
63. Kingston, N.M. (P.I.). Kansas Summative Assessments (KAP), Kansas State Department of Education (2018-2019).	\$5,142,646	Sole Source
64. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). KAP Dynamic Learning Maps Operational Testing (ELA, Math, Science), Kansas State Department of Education (2018-2019)	\$757,320	Sole Source
65. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Alternative Assessment (Science) and Consortium Services, Maryland State Department of Education (2017-2019).	\$780,728	Sole Source
66. Kingston, N.M. (P.I.). Kansas Summative Assessments (KAP) 2017-18, Kansas State Department of Education (2017-2018).	\$5,189,020	Sole Source
67. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). KAP Dynamic Learning Maps Operational Testing (ELA, Math, Science) 2017-18, Kansas State Department of Education (2017-2018).	\$757,320	Sole Source
68. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math), Colorado Department of Education (2017-2018).	\$882,000	Sole Source
69. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), Illinois State Board of Education. (2017-2018).	\$2,263,500	Sole Source
70. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing, Iowa Department of Education. (2017-2018).	\$705,894	Sole Source
71. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science)	\$1,717,300	Sole Source

and Additional Services, Missouri Department of Education. (2017-2018).		
72. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), New Hampshire Department of Education. (2017-2018).	\$700,300	Sole Source
73. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development and Additional Services, New Hampshire Department of Education. (2017-2018).	\$250,000	Sole Source
74. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development, State of New Jersey Department of Education. (2017-2018).	\$508,070	Sole Source
75. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), State of New Jersey Department of Education. (2017-2018).	\$2,187,484	Sole Source
76. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Testing/Consortium (ELA, Math, Science) and Additional Services, Oklahoma State Department of Education. (2017-2018).	\$1,648,619	Sole Source
77. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Development of DLM Assessments (ELA, Math, Science), and Additional Services, Wisconsin Department of Public Instruction. (2017-2018).	\$380,453	Sole Source
78. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Test Administration (ELA, Math, Science), Wisconsin Department of Public Instruction. (2017-2018).	\$1,002,001	Sole Source
79. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science), Science Development, and Additional Services, Delaware Department of Education. (2017-2018).	\$1,163,714	Sole Source
80. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science) and Additional Services, Illinois State Board of Education. (2016-2020).	\$2,214,219	Sole Source
81. Kingston, N.M. (P.I.) and Broaddus, A. (Co-P.I.). Use of Learning Maps as an Organizing Structure for Formative Assessment. United States Department of Education (Enhanced Assessment Grant Program proposal) (2016-2019).	\$5,501,930	Competitive
82. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment-Science, Alaska Department of Education (2016-2017).	\$18,300	Sole Source
83. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing. Iowa Department of Education. (2016-2017).	\$255,956	Sole Source

84. Kingston, N.M. (P.I.) and Kaase, K. (Co-P.I.). Kansas Assessment Program (KAP) 2016-17, Kansas State Department of Education (2016-2017).	\$6,147,169	Sole Source
85. Kingston, N.M. (P.I.) and Kaase, K. (Co-P.I.). Kansas Assessment Program (cPASS) 2016-17, Kansas State Department of Education (2016-2017).	\$260,001	Sole Source
86. Kingston, N.M. (P.I.) and Kaase, K. (Co-P.I.). Kansas Assessment Program (Science) 2016-17, Kansas State Department of Education (2016-2017).	\$51,633	Sole Source
87. Kingston, N.M. (P.I.) and Kaase, K. (Co-P.I.). Kansas Assessment Program (DLM, ELA, Math) 2016-17, Kansas State Department of Education (2016-2017).	\$241,197	Sole Source
88. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learnings Maps (ELA, Math, Science) Alternate Assessment. Alaska Department of Education. (2016-2017).	\$70,200	Sole Source
89. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Alternate Assessment. Colorado Department of Education. (2017).	\$468,000	Sole Source
90. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math, Science) and Additional Services. Miccosukee Indian School and US Department of Interior-Bureau Edu. (2016-2017).	\$2,524	Sole Source
91. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA and Math). West Virginia Department of Education. (2016-2017).	\$215,992	Sole Source
92. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (Science). West Virginia Department of Education. (2016-2017).	\$72,501	Sole Source
93. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Development of Dynamic Alternate Assessment (Science). Wisconsin Department of Education. (2016-2017).	\$250,000	Sole Source
94. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA and Math). Colorado Department of Education. (2016-2017).	\$462,840	Sole Source
95. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps High School Alternate Assessment Development (Social Studies). Oklahoma State Department of Education. (2016-2017).	\$137,060	Sole Source
96. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA and Math). Oklahoma State Department of Education. (2016-2017).	\$437,580	Sole Source
97. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps – Additional Services. Oklahoma State Department of Education. (2016-2017).	\$654,280	Sole Source
98. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Alternate Assessment (ELA, Math, and	\$858,044	Sole Source



Science) and Additional Services. Wisconsin Department of Public Instruction. (2016-2017).		
99. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing and Additional Services. Missouri Department of Education. (2016-2017).	\$1,060,765	Sole Source
100. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Development. Maryland State Department of Education. (2016-2017).	\$500,000	Sole Source
101. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing - Science. Oklahoma State Department of Education. (2016-2017).	\$93,600	Sole Source
102. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Science Operational Testing. Maryland State Department of Education. (2016-2017).	\$151,682	Sole Source
103. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Implementation of Dynamic Learning Maps Alternate Assessment, State of Vermont. (2016-2017).	\$85,000	Sole Source
104. Kingston N.M. (P.I.). Item Development for Middle School and End of Course Assessment Programs. Questar Assessment. (2016).	\$131,015	Competitive
105. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing. Colorado Department of Education. (2016).	\$447,330	Competitive
106. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment for New York State. New York State. (2015-2020).	\$13,120,000	Competitive
107. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment. Utah Office of State Education. (2015-2020).	\$2,707,036	Sole Source
108. Karvonen, M. (P.I.), and Kingston, N.M. (Co-P.I.). Dynamic Learnings Maps Membership. North Carolina Department of Public Instruction. (2015-2017).	\$20,000	Sole Source
109. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing. North Dakota Department of Public Instruction. (2015-2018).	\$354,072	Sole Source
110. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Alternate Assessment Administration, West Virginia Department of Education. (2015-2018).	\$957,980	Sole Source
111. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps Operational Testing (ELA, Math). New Hampshire Department of Education. (2015-2017).	\$202,500	Sole Source
112. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Implementation of Dynamic Learning Maps Alternate Assessment, State of New Jersey. (2015-2017).	\$1,883,401	Sole Source
113. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learning Maps – Science Development. West Virginia Department of Education. (2015-2016).	\$500,000	Sole Source

114. Karvonen, M. (P.I.) and Kingston N.M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Assessment- Science, Wisconsin Department of Public Instruction (2015-2016).	\$250,000	Sole Source
115. Perie, M., Kingston, N.M. and Karvonen, M. (Co-PI). Alaska Measures Progress Science and Science Alternate Assessments, Alaska Department of Education (2015-2016).	\$1,181,802	Sole Source
116. Kingston N.M. (P.I.) and Karvonen, M. Design and Development of a Dynamic Learning Maps Assessment- Social Studies, Oklahoma State Department of Education (2015-2016)	\$1,548,534	Sole Source
117. Kingston, N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Operational Testing. Alaska Department of Education and Early Development. (2015-2016).	\$58,500	Sole Source
118. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment. West Virginia Department of Education. (2015-2016).	\$281,848	Sole Source
119. Kingston, N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps – Operational/Testing. Iowa Department of Education. (2015-2016).	\$239,772	Sole Source
120. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Dynamic Learning Maps Development and Operational Testing including Science. Oklahoma State Department of Education. (2015-2016).	\$531,347	Sole Source
121. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). English Language Arts and Mathematics Grades 3-5; Science Grades 5 and 8; and High School Algebra I, English II and Biology Alternate Assessments for Students with Significant Cognitive. Questar Assessment, Inc. (2015-2016).	\$520,763	Sole Source
122. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Dynamic Learnings Maps Operational Testing. US Department of Interior-Bureau of Indian Edu; Miccosukee Indian School. (2015-2016).	\$2,488	Sole Source
123. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Implementation of Dynamic Learning Maps Alternate Assessment, State of Missouri. (2015-2016).	\$674,855	Sole Source
124. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Implementation of Dynamic Learning Maps Alternate Assessment, State of Wisconsin. (2015-2016).	\$759,080	Sole Source
125. Karvonen, M. (P.I.) and Kingston, N.M. (Co-P.I.). Implementation of Dynamic Learning Maps Alternate Assessment-science, State of Missouri. (2015-2016).	\$145,080	Sole Source
126. Karvonen, M. (PI), & Kingston, N.M. (Co-PI). Implementation of a Dynamic Learning Maps Alternate Assessment – Additional Services, State of Missouri. (2015-2016).	\$476,084	Sole Source
127. Kingston, N.M. (P.I.). Dynamic Learning Maps Membership. Vermont Department of Education. (2015).	\$15,000	Sole Source

128. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment. Colorado Department of Education. (2015).	\$109,240	Sole Source
129. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment. New Jersey Department of Education. (2015).	\$270,000	Sole Source
130. Kingston N.M. (P.I.) and Karvonen, M. Dynamic Learning Maps Alternate Assessment. Illinois State Board of Education. (2015).	\$239,240	Sole Source
131. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Implementation of a Dynamic Learning Maps Alternate Assessment, Choctaw Tribal Schools (2015).	\$2,917	Sole Source
132. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Implementation of a Dynamic Learning Maps Alternate Assessment Miccosukee Tribal Schools (2015).	\$2,293	Sole Source
133. Perie, M. and Kingston, N.M. (Co-P.I.). Alaska English Language Arts and Mathematics Assessments, State of Alaska (2014-2020).	\$25,000,000	Sole Source
134. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Implementation of a Dynamic Learning Maps Alternate Assessment, State of Mississippi (2014-2015).	\$83,200	Sole Source
135. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Implementation of a Dynamic Learning Maps Alternate Assessment, State of Vermont (2014-2015).	\$10,000	Sole Source
136. Kingston, N.M. (PI). Development of a learning map prototype complete with enhanced learning progressions and visualizations. Gates Foundation (2014-15).	\$212,022	Invitational and Competitive
137. Kingston, N.M. (PI) and Perie, M. Psychometric services for Arizona Department of Education, Arizona Department of Education (2014-15).	\$107,190	Competitive
138. Perie, M. and Kingston, N.M. (Co-P.I.). Kansas Assessment Program 2014-15, Kansas State Department of Education (2014-2015).	\$5,500,000	Sole Source
139. Perie, M. and Kingston, N.M. (Co-P.I.). Kansas Assessment Program Special Education 2014-15, Kansas State Department of Education (2014-2015).	\$2,000,000	Sole Source
140. Kingston, N.M. (PI). Design and Development of a Dynamic Learning Maps Alternate Assessment, Virginia Department of Education (2014-2015).	\$20,000	Sole Source
141. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, Alaska Department of Education (2014-2015).	\$15,460	Sole Source
142. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, State of New Hampshire (2014-2015).	\$16,667	Sole Source

143. Perie, M. (P.I.), Kingston, N.M. and Karvonen, M. (Co-P.I.). Dynamic Learning Maps – Science, Kansas State Department of Education (2014-2015).	\$500,000	Sole Source
144. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, North Dakota Department of Public Instruction (2014-2015).	\$12,840	Sole Source
145. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, State of Wisconsin (2014-2015).	\$158,706	Sole Source
146. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment System, Lancaster, PA (2014-2015).	\$30,000	Sole Source
147. Perie, M. (P.I.), Kingston, N.M. and Karvonen, M. (Co-PI). Design and Development of a Dynamic Learning Maps Assessment, Kansas State Department of Education (2014-2015).	\$250,000	Sole Source
148. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, State of Iowa (2014-2015).	\$547,830	Sole Source
149. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Assessment-Science, Oklahoma State Department of Education (2014-2015).	\$613,340	Sole Source
150. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Assessment, Oklahoma State Department of Education (2014-2015).	\$200,000	Sole Source
151. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, State of Missouri (2014-2015).	\$687,250	Sole Source
152. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learning Maps Assessment, Colorado Department of Education (2014-2015).	\$20,000	Sole Source
153. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, Illinois State Board of Education (2013-2016).	\$45,000	Sole Source
154. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, North Dakota Department of Public Instruction (2013-2015).	\$48,333	Sole Source
155. Kingston, N.M. (P.I.) and Karvonen, M. (Co-P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, Alaska Department of Education (2013-2015).	\$45,000	Sole Source
156. Kingston, N.M. (P.I.) and Perie, M. Kansas Assessment Program 2013-14, Kansas State Department of Education (2013-2014).	\$4,730,000	Sole Source

157. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learnings Maps Alternate Assessment, Colorado Department of Education (2013-2014).	\$16,668	Sole Source
158. Kingston, N.M. (P.I.). cPass, Mississippi Department of Education (2013-2014).	\$42,000	Soul Source
159. Perie, Marianne (P.I.), Kingston, N.M. (Co-P.I.). Teacher Leadership, Kansas State Department of Education (2013-2014).	\$47,835	Sole Source
160. Perie, Marianne (P.I.), Kingston, N.M. (Co-P.I.). Career Competency Qualification, Kansas Department of Education (2013).	\$125,000	Sole Source
161. Kingston, N.M. (P.I.). Colorado Performance Tasks, Colorado Department of Higher Education (2013).	\$56,695	Sole Source
162. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, Vermont Department of Education (2012-2014).	\$34,000	Sole Source
163. Kingston, N.M. (P.I.). Kansas Assessment Program 2012-13 TAC, Kansas State Department of Education (2012-2013).	\$70,000	Sole Source
164. Kingston, N.M. (P.I.). Kansas Assessment Program 2012-13 Kansas State Department of Education (2012-2013).	\$90,000	Sole Source
165. Kingston, N.M. (P.I.). Kansas Assessment Program, Kansas State Department of Education (2012-2013).	\$4,500,000	Sole Source
166. Kingston, N.M. (P.I.). cPass, Colorado Department of Education. (2011-2014).	\$300,000	Sole Source
167. Kingston, N.M. (P.I.). cPass, Mississippi Department of Education. (2012-2013).	\$42,000	Sole Source
168. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, Virginia Department of Education (2012-2013).	\$51,310	Sole Source
169. Kingston, N.M. (P.I.). Kansas Assessment Program, Kansas State Department of Education (2011-2013).	\$4,325,829	Sole Source
170. Kingston, N.M. (P.I.). Kansas Career and Technical Education Assessment System. Kansas State Department of Education (2011-2014).	\$987,460	Sole Source
171. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment, State of Washington Office of Superintendent (2011-2014).	\$75,000	Competitive
172. Hock, M., Kingston, N.M. (Co-P.I.), Davis, M., Tonks, S. & Brasseur, I., Development and Validation of Online Adaptive Reading Motivation Measures, Re-submitted 2010 IES, (Co-P.I.) (2011-14).	\$1,738,808	Competitive
173. Kingston, N.M. (P.I.). Design and Development of a Dynamic Learning Maps Alternate Assessment. Submitted July 2010 OSEP, (2010-2015, \$24,875,111 requested).	\$25,026,112	Competitive
174. Embretson, S., Walker, B., Poggio, J., Kingston, N.M. (Co-P.I.), & Meyen, E. An Adaptive Testing System for Diagnosing	\$1,854,393	Competitive

Sources of Mathematics Difficulties. Submitted 2010 IES, (2010-2013).		
175. Kingston, N.M. (P.I.). Kansas Reading and Mathematics Assessments, FY 2010-11 (General and KAMM Assessments). Submitted 2010 Kansas State Department of Education, (2010-2012).	\$2,270,992	Sole Source
176. Kingston, N.M. (P.I.). Kansas Reading and Mathematics Assessments, FY 2010-11 (Alternate Assessment, KELPA, and Special Projects) Submitted 2010 Kansas State Department of Education. (2010-2012).	\$1,358,000	Sole Source
177. Kingston, N.M. (P.I.). Alternate Assessment Design Reading Project. Submitted 2010 Kansas State Department of Education (2010-2011, EAG pass-through).	\$129,496	Sole Source
178. Kingston, N.M. (P.I.). Kansas Focal Point Assessments. Kansas State Department of Education (2010-11).	\$54,364	Sole Source
179. Kingston, N.M. (P.I.). GMAT Technical Manual Development. Submitted 2009 Graduate Management Admissions Council. (2010).	\$23,661	Sole Source
180. Kingston, N.M. (P.I.). Kansas Reading and Mathematics Assessments, FY 2009-10 (General and KAMM Assessments). Submitted 2009 Kansas State Department of Education, (2009-2011).	\$2,420,000	Sole source
181. Kingston, N.M. (P.I.). Kansas Reading and Mathematics Assessments, FY 2009-10 (Alternate Assessment, KELPA, and Special Projects). Submitted 2009 Kansas State Department of Education. (2009-2011).	\$1,352,500	Sole Source
182. Kingston, N.M. (P.I.). Research on the Foster (DOMC) Item Type. Submitted 2009 Brigham Young University. (2009-2010).	\$2,500	Sole Source
183. Kingston, N.M. (P.I.) & McKinley, R. Combining multiple IRT parameter estimates, Educational Testing Service.		Competitive
184. Kingston, N.M. (P.I.), McKinley, R, & Schaeffer, G. Exploring the Use of IRT Equating for the GRE Subject Test in Mathematics, Graduate Record Examinations Board		Competitive
185. Kingston, N.M. (P.I.). Estimating Equating Functions on Standardized Test Populations, Educational Testing Service		Competitive
186. Kingston, N.M. (P.I.), Leary, L. & Wightman, L. An Exploratory Study of the Applicability of Item Response Theory to the Graduate Management Admissions Test, Graduate Management Admissions Council		Competitive
187. Kingston, N.M. (P.I.). Evaluation of the Restructured Graduate Record Examinations General Test: Analysis of Score Change Patterns for Repeaters, Graduate Record Examinations Board		Competitive
188. Kingston, N.M. (P.I.) and Dorans, N.J. Feasibility of using Item Response Theory as a Psychometric Basis for the		Competitive

Graduate Record Examinations Aptitude Test, Graduate Record Examinations Board		
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### Internal Funding

1. Kingston, N.M. (PI). Development, Validation, and Implementation of Integrated Psychometric Curricular Models to Better Support Instruction and Produce more Useful Test Scores. Requested 2007-2009	\$5,000	
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## SERVICE RECORD

### University of Kansas Service

Activity	Role	Dates	Category
Hall Center for the Humanities Friends Council	Member	2019-	University
Center for Undergraduate Research Advisory Board	Member	2016-2018	
Gunn Center for the Study of Science Fiction Board of Advisors	Member	2016-	
2013 Strategic Initiative Theme (SIT) Research Summit Planning Committee	Member	2013	
Kansas University Center for Research	Trustee	2012-2016	
Research Investment Council	Member	2012-2015	
CRMDA/Assist/Assoc. Professor Search Committee	Member	2009-2010	
Judicial Board	Member	2008-2010	
Quantitative Psych. Assist. Professor Search Committee	Member	2008-2009	
Quantitative Psych. Assist. Professor Search Committee	Member	2007-2008	
Ad Hoc Advisory Committee on Student Evaluation of Faculty	Member	2006-2007	
Graduate Studies Advisory Committee	Member	2019-	School
Service Award Committee	Member	2013-2018	
Personnel Committee	Member	2012-2015	
Technology Committee	Member	2011-2014	
Research, Measurement, Statistics, and Evaluation Award Program	Co-chair	2009-2015	
Ad Hoc Committee on Teacher Preparation	Member	2008-2009	
Graduate Studies Committee	Member	2007-2010	
School of Education Strategic Planning Committee	Member	2007-2009	
Center for Psychoeducational Services Advisory Council	Member	2006-2008	
EPSY Director of Graduate Studies	Director	2019-	Department
REMS Faculty Search Committee	Chair	2019-2020	
REMS Track	Coordinator	2010-2011	
Psychology and Research in Education Dept.	Interim	Fall 2009	

Tollefson Fellowship Committee	Chair	2008-2012	
Psychology and Research in Education Dept.	Co-chair	2008-2010	
Faculty Evaluation Committee	Assoc. Chair	2008	
Educ. Psych. and Res. Faculty Search Committee	Member	2006-2007	

### Professional Service Outside the University

Activity	Role	Dates
International Association for Educational Assessment Nominations Committee	Member	2016-2018
NCME Classroom Assessment Task Force	Member	2016-present
NCME Standards and Test Use Committee	Member Chair	2016-2017 2017-2018
NCSBN Measurement Consultant	Consultant	2015-2016
SAGE Encyclopedia of Educational Research, Measurement, and Evaluation	Editorial Board Member	2015-2018
2015 Conference on the Statistical Detection of Potential Test Fraud	Chair	2014-2015
CCSSO Students with Disabilities Assessment Advisory Task Force	Member	2013-2015
Online Assessment Cross-Consortium Technology Collaboration Group	Member	2013-2015
International Association for Educational Assessment 2015 Conference Committee	Chair	2013-2015
2014 Conference on the Statistical Detection of Potential Test Fraud	Planning Com.	2013-2014
2013 Conference on Instructional Sensitivity	Co-chair	2012-2013
2013 Conference on the Statistical Detection of Potential Test Fraud	Planning Com.	2012-2013
2012 Conference on the Statistical Detection of Potential Test Fraud	Chair	2011-2012
2012 Colloquium on Organized Learning Models	Planning Com.	2012
National Council on Disability Expert Panel on Graduation Outcomes and Assessment Tools	Member	2012
Edvantia Technical Advisory Group	Member	2012
NCME 75 <sup>th</sup> Anniversary Planning Committee	Chair	2010-2013
ATP 2010 Annual Conference Program Committee	Vice Chair	2009-2010
NSF REESE Peer Review Panel	Member	2009
2009 Colloquium on Universally Designed Technology Enhanced Assessments	Planning Com.	2009
GED Technical Advisory Committee	Member	2008-2017
Kaplan Catalyst Technical Advisory Committee	Member	2008-2010
AERA Division D Editorial Committee	Member	2008-2009
United States Department of Education Workshop on Formative Assessment	Member	2008



United States Department of Education Workshop on Use of Portfolios in NCLB Assessment Programs	Member	2008
Utah State Office of Education Computer-Based Testing Summit	Member	2007
Joint Committee on Testing Practices	Member	2006-2007
New Hampshire State Department of Education Advisory Committee on Score Reporting	Member	2000
Career Channel Advisory Group	Member	1991
National Research Council Workshop on Confidentiality of Graduate Data	Member	1988
Defense Advisory Council on Military Personnel Testing	Member	1987-1988
Franklin Township Board of Education	Member	1985
NCME 1984 Conference	Co-chair	1983-1984