

## Allan S. Cohen

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### Education

Ph.D.	1972	Educational Psychology and Measurement	University of Iowa
M.A.	1972	Educational Psychology and Measurement	University of Iowa
B.A.	1964	Psychology	University of Minnesota

### Relevant Experience

2021	Professor Emeritus, Department of Educational Psychology, University of Georgia
2003-2021	Professor, Department of Educational Psychology, University of Georgia
2003-2021	Director, Georgia Center for Assessment, University of Georgia
2010-2015	Director, Institute for Interdisciplinary Research on Education & Human Development, University of Georgia
2008-2010	Interim Director, Educational Policy & Evaluation Center, University of Georgia
1999-2003	Associate Professor, Department of Educational Psychology, University of Wisconsin-Madison
1993-1999	Senior Lecturer, Department of Educational Psychology, University of Wisconsin-Madison
1990-2003	Director, UW-System Center for Placement Testing, University of Wisconsin-Madison
1979-2003	Director, Office of Testing & Evaluation Services, University of Wisconsin-Madison
1978-1979	Professional Associate, Educational Testing Service, Evanston, Illinois
1974-1978	Assistant Professor, Purdue University
1974-1976	Director of Research, Child Development Laboratories, Purdue University
1972-1974	Assistant Professor, Pennsylvania State University
1972-1974	Deputy Head, Pennsylvania Day Care Project and Research Associate, Center for Human Services Development

## Awards & Honors

- 2011-2021 Omer Clyde & Elizabeth Parr Aderhold Professor of Research Methodology, University of Georgia
- 2012 NCME Award for Career Contributions to Educational Measurement
- 2011 NCME Award for an Outstanding Application of Educational Measurement Technology to Solve a Specific Problem in Educational Measurement
- 2008 Korea Research Foundation Award for Outstanding Scholarship, Basic Research Program (Humanities & Social Sciences)

## Recent Grants

- Cohen, A.S. (PI). *The Georgia Testing Program for Development of Educational Achievement Tests*. UGA Office of the Vice-President for Research, Date: 1/1/2004 - 12/31/2004, \$40,000.
- Hickey, D. (PI), Beckmann-Kazez, S. (Co-PI), Cohen, A.S. (Co-PI), Mewborn, D. (Co-PI) & Lanehart, S. (Co-PI) *Multilevel Assessment for Enhancing Mathematical Discourse, Curriculum and Achievement in Diverse Elementary School Classrooms*. National Science Foundation. Award Date: 7/1/2005 \$285,282.
- Cohen, A.S. (PI). *Mixture Model Analysis of Mathematics Tests Anchored in a Technology-Rich Environment*. Sub-contract on U.S. Department of Education, Institute of Education Sciences grant awarded to Brian Bottge (PI), University of Wisconsin, Center for Education Research. Dates: 08/25/2005 - 07/31/2006, \$61,452.
- Cohen, A.S. (PI). *Evaluation of Motivation Effects on National Assessment of Educational Progress Test Items*. Subcontract on U.S. Department of Education, Institute of Education Sciences grant awarded to HumRRO, Alexandria, VA. Dates: 9/1/2004 - 8/31/2005. \$50,000.
- Cohen, A.S. (PI). *Using Mixture IRT Models with Covariates for Identifying Comparable Comparison Groups*. The College Board. (Faculty Mentor to Sun-Joo Cho, the student who did the work on this project.) Dates: 8/15/2006 - 8/15/2007. \$26,500.
- Recesso, A. (PI), Hannafin, M. (Co-PI), Cohen, A.S. (Co-PI). *Teacher Success Model*. Georgia Department of Education. Dates: 9/16/2005 - 8/1/2007. \$1,475,000.
- Orrill, C. (PI), Iszák, A. (Co-PI), & Cohen, A.S. (Co-PI). *Does it Work?: Building Methods for Understanding Effects of Professional Development*. National Science Foundation. Dates: 1/1/2007 - 12/31/2009. \$999,958.
- Kamphaus, R. (PI), Cohen, A.S. (Co-PI), Roach, A. (Co-PI), & Templin, J. (Co-PI). *Georgia Measurement and Assessment Training - Postdoctoral Program (GMAT-PD)*. U.S. Department of Education, Institute for Education Science. Dates: 10/1/2008 - 9/30/2012. \$596,562 (Subcontract to UGA from Georgia State University: \$293,474).

- Iszák, A. (PI), Cohen, A. S. (Co-PI), Orrill, C. (Co-PI), Lobato, J. (Co-PI), Templin, J. L. (Co-PI). *Diagnosing Teachers' Multiplicative Reasoning*. National Science Foundation. Dates: 10/1/2008-12/31/2010. \$944,163 (Subcontract to UGA from San Diego State University: \$511,369).
- Oliver, S. J. (PI), Moore, J. (Co-PI), Cohen, A.S. (Co-PI). *Learning Biological Processes Through Animations and Inquiry: A New Approach*. National Institutes of Health, National Center for Research Resources Special Emphasis Panel (SEPA), Dates: 10/1/2008-9/30/2012, \$1,296,570 (plus \$369,070 cost sharing).
- Bottge, B. (PI), Ma, X. (Co-PI), & Cohen, A.S. (Co-PI). *Evaluating the Efficacy of Enhanced Anchored Instruction for Middle School Students with Learning Disabilities in Math*. U.S. Department of Education, Institute for Education Science. Dates: 7/1/2009-6/30/2014. Amount awarded: \$2,330,164 (Subcontract to UGA from University of Kentucky: \$88,587).
- Evans, M. (PI), Project Title: *EngageMe-P.L.E.A.S.E.* U.S. Department of Education, Institute for Education Sciences i3. Subcontract to UGA: Gregg, K. N. (PI), Cohen, A. S. (Co-PI). Dates: 10/1/2010 to 7/15/2015. \$800,000.
- Buxton, C. (PI), Alleksaht-Snyder, M. (Co-PI), & Cohen, A.S. (Co-PI) *Language-Rich Inquiry Science with English Language Learners (LISELL)*. National Science Foundation. Dates: 8/15/2010 - 7/31/2013. \$515,756.
- Iszák, A. (PI), Cohen, A. S. (Co-PI), & Remillard, J. (Co-PI). *An Interdisciplinary Conference on Assessment in K-12 Mathematics: Collaborations Between Mathematics Education and Psychometrics*. National Science Foundation. Dates: 3/31/2011 - 12/31/2011. \$99,844.
- Orrill, C. (PI). *CAREER: Coherence as a Basis for Understanding Teachers' Mathematical Knowledge*. National Science Foundation, Subcontract to UGA: Cohen, A.S. (PI), \$30,230, Dates: 4/5/2011 to 3/31/2013
- Williamson Shaffer, D. (PI). *AUTOMENTOR: Virtual Mentoring and Assessment in Computer Games for STEM Learning*. National Science Foundation, Subcontract to UGA: Cohen, A. S. (PI). \$200,000, Dates: 8/1/2012 to 7/31/2014.
- Brown, S. A. (PI), Odonnell, C. (Co-PI), Robertson, T. P. (Co-PI), Moore, J.N. (Co-PI), Higgins, B. P. (Co-PI), Cohen, A. S., (Co-PI), & Edwards, G.L. (Co-PI). *Engaging Students In Diabetic Kidney Disease: An Interactive Inquire Approach*. National Institutes of Health. \$492,757, Dates: 1/7/2013 to 12/31/2017.
- Buxton, C. (PI), Alleksaht-Snyder, M. (Co-PI), Cohen, A.S. (Co-PI), & Lu, Zhenqiu (Co-PI) *Language-Rich Inquiry Science with English Language Learners through Biotechnology (LISELL-B)*. National Science Foundation. Dates: 8/1/2013 - 7/31/2017. \$2,648,051. Supplemental Funding, Buxton, C. (PI) & Cohen, A.S. Dates: 7/1/2017 to 6/30/2018. \$109,000.

- Hodges, G. W. (PI), Cohen, A. S. (Co-I), Moore, J. (Co-I), Robertson, T. (Co-I), Brown, S. (Co-I), & Ward, C. (Co-I). *Stimulating Young Scientists to Engage, Motivate and Synthesize (SYSTEMS)*. National Institutes of Health, National Center for Research Resources Special Emphasis Panel (SEPA). Dates: 7/1/2014 to 6/30/2019. \$1,341,173.
- Bottge, B. A. (PI), Ma, X. (Co-PI), Cohen, A. S. (Co-PI), Bradshaw, L. P. (Co-PI), & Choi, H.-J. (Co-PI). *Developing Enhanced Assessment Tools for Capturing Students' Procedural Skills and Conceptual Understanding in Math*. Institute for Education Sciences. Dates: 7/1/2015-6/30/2019. \$1,597,496 (PI on subcontract to UGA: \$394,206.)
- Copur-Gencturk, Y. (PI), Orrill, C.H. (Co-PI), Nye, B. (Co-PI), & Cohen, A.S. (Co-PI), *Advancing Middle School Teachers Understanding of Proportional Reasoning for Teaching*. National Science Foundation. Dates: 7/1/2018-6/30-2022. \$1,399,982 (PI on subcontract to UGA: \$189,243.)
- Copur-Gencturk, Y. (PI), Cohen, A.S. (Co-PI), Orrill, C.H. (Co-PI), & Templin, J. (Co-PI), *Usable Measures of Teacher Understanding: Exploring Diagnostic Models and Topic Analysis as Tools for Assessing Proportional Reasoning for Teaching*. National Science Foundation. Dates: 9/1/2018-8/31/2022. \$2,168,584. (PI on subcontract to UGA: \$394,005.)
- Dolan, E.L. (PI), Choi, H.-J. (Co-PI), Cohen, A.S. (Co-PI), Johnson, K.J. (Co-PI), & Ramirez Lugo, J.S. (Co-PI). *Momentary Assessment of Research Learning Environments*. National Science Foundation. Dates: 10/1/2019-9/30/2022. \$1,420,571.

## Articles

- Adams, G.R., & Cohen, A.S. (1974). Children's physical and interpersonal characteristics that affect teacher-student interactions. *Journal of Experimental Education*, 43(1),1-5.
- Peters, D.L., Cohen, A.S., & McNichols, M.M. (1974). The training and certification of early childhood personnel. *Child Care Quarterly*, 3(1), 39-53.
- Adams, G.R., & Cohen, A.S. (1976). An examination of cumulative folder information used by teachers in making differential judgments of children's abilities. *The Alberta Journal of Educational Research*, 22(3), 216-225.
- Cohen, A.S., Peters, D.L., & Willis, S.L. (1976). The effect of early childhood education student teaching on program preferences, beliefs, and behaviors. *Journal of Educational Research*, 70(1), 15-20.
- Adams, G.R., & Cohen, A.S. (1976). Characteristics of children and teacher expectancy: An extension to the child's social and family life. *Journal of Educational Research*, 70(2), 87-90.
- Cohen, A.S., Hulls, J.J., & Rhine, P. (1978). The influence of context on activity level of young children. *Journal of Genetic Psychology*, 132(2), 165-175.

- Cohen, A.S., & Van Tassel, M.E. (1978). A comparison of partial and complete paired-comparisons in sociometric measurement of preschool groups. *Applied Psychological Measurement*, 2(1), 31-40.
- Cook, T.P., & Cohen, A.S. (1978). The effect of interpersonal attraction on manipulatory curiosity in preschool children. *Journal of Social Psychology*, 106, 49-56.
- Gruen, G.E., Doherty, J., & Cohen, A.S. (1979). The moral judgments of preschool children. *Journal of Psychology*, 101, 287-291.
- Cohen, A.S., & Melson, G.F. (1980). The influence of friendship on children's communication. *Journal of Social Psychology*, 112, 207-213.
- Hulls, J.J., Melson, G.F., & Cohen, A.S. (1980). Situation and person factors in young children's communication. *Home Economics Research Journal*, 8(6), 394-398.
- Melson, G.F., & Cohen, A.S. (1981). Contextual influences on children's activity: Sex differences in effects of peer presence and interpersonal attraction. *Genetic Psychology Monographs*, 103, 243-260.
- Baker, F.B., Cohen, A.S., & Barmish, B.R. (1988). Characteristics of items selected by linear programming. *Applied Psychological Measurement*, 12(2), 189-199.
- Safrit, M.J., Cohen, A.S. & Costa, M.G. (1989). Item response theory and the measurement of motor behavior. *Research Quarterly for Exercise and Sport*, 60(4), 325-335.
- Cohen, A.S., Kim, S.-H., & Subkoviak, M.J. (1991). Influence of prior distributions on detection of DIF. *Journal of Educational Measurement*, 28(1), 49-59.
- Kim, S.-H., & Cohen, A.S. (1991). A comparison of two area measures for detecting differential item functioning. *Applied Psychological Measurement*, 15, 269-278.
- Cohen, A.S., & Moeser, E. (1991). Standardizing essay scores: Correcting for differences in difficulty among essay questions. *The Bar Examiner*, 60, 20-24. Reprinted in *The Bar Examiner*, 69(1), 20-25.
- Kim, S.-H., & Cohen, A.S. (1992). Effects of linking methods on detection of DIF. *Journal of Educational Measurement*, 29, 51-66.
- Kim, S.-H., & Cohen, A.S. (1992). IRTDIF: A computer program for IRT differential item functioning analysis. *Applied Psychological Measurement*, 16(2), 158.
- Cohen, A.S., & Kim, S.-H. (1992). Detecting calculator effects on item performance. *Applied Measurement in Education*, 5(4), 303-320.
- Nystrand, M., Cohen, A. S., & Dowling, N. M. (1993). Addressing reliability problems in the portfolio assessment of college writing. *Educational Assessment*, 1, 53-70.

- Cohen, A.S., & Kim, S.-H. (1993). A comparison of Lord's  $\chi^2$  and Raju's area measures in detection of DIF. *Applied Psychological Measurement*, 17(1), 39-52.
- Cohen, A.S., Kim, S.-H., & Baker, F.B. (1993). Detection of differential item functioning in the graded response model. *Applied Psychological Measurement*, 17(4), 335-350.
- Kim, S.-H., Cohen, A.S., Baker, F.B., Subkoviak, M.J., & Leonard, T. (1994). An investigation of hierarchical Bayes procedures in item response theory. *Psychometrika*, 59(3), 405-421.
- Kim, S.-H., Cohen, A.S., & Kim, H.O. (1994). An investigation of Lord's procedure for detection of differential item functioning. *Applied Psychological Measurement*, 18(3), 217-228.
- Zhu, W., Safrit, M.J., & Cohen, A.S. (1994). Development of a high school physical fitness knowledge test: A preliminary report. *Research Quarterly for Exercise and Sport*, 65 (Suppl. 1), A-60.
- Kim, S.-H., Cohen, A.S., & Park, T.H. (1995). Detection of differential item functioning in multiple groups. *Journal of Educational Measurement*, 32(3), 261-276.
- Kim, S.-H., & Cohen, A.S. (1995). A comparison of Lord's chi-square, Raju's area measures, and the likelihood ratio test on detection of differential item functioning. *Applied Measurement in Education*, 8(4), 291-312.
- Kim, S.-H., & Cohen, A.S. (1995). A minimum  $\chi^2$  method for equating tests under the graded response model. *Applied Psychological Measurement*, 19(2), 167-176.
- Zhu, W., Safrit, M.J., & Cohen, A.S. (1995). Development of an high school physical fitness knowledge test: A follow-up. *Research Quarterly for Exercise and Sport*, 66(Suppl. 1), A-50 - A-51.
- Cohen, A.S., Kim, S.-H., & Wollack, J. A. (1996). An investigation of the likelihood ratio test for detection of differential item functioning. *Applied Psychological Measurement*, 20(1), 15-26.
- Kane, M.T., Cohen, A.S., Smith, E.R., Lewis, C., & Reidy, C. (1996). 1995 Commission on Dietetic Registration dietetics practice audit. *Journal of the American Dietetics Association*, 96(12), 1-10.
- Kim, S.-H., & Cohen, A.S. (1996). Tables of percentage points of the Behrens-Fisher distribution. *Journal of Statistical Computation and Simulation*, 55, 181-187.
- Crooks, T.J., Kane, M.T., & Cohen, A.S. (1996). Threats to the valid use of assessments. *Assessment in Education*, 3(3), 265-285.
- Cohen, A.S., & Kim, S.-H. (1998). An investigation of linking methods under the graded response model. *Applied Psychological Measurement*, 22(2), 116-130.

- Kim, S.-H., & Cohen, A.S. (1998). A comparison of linking and concurrent calibration under item response theory. *Applied Psychological Measurement*, 22(2), 131-143.
- Wollack, J.A., & Cohen, A.S. (1998). Detection of answer copying with unknown item and trait parameters. *Applied Psychological Measurement*, 22(2), 144-152.
- Kim, S.-H., & Cohen, A.S. (1998). Detection of differential item functioning under the graded response model with the likelihood ratio test. *Applied Psychological Measurement*, 22(4), 345-355.
- Kim, S.-H., & Cohen, A.S. (1998). On the Behrens-Fisher Problem: A review. *Journal of Educational and Behavioral Statistics*, 23(4), 356-377.
- Kane, M.T., Crooks, T.J., & Cohen, A.S. (1999). Validating measures of performance. *Educational Measurement: Issues & Practices*, 19(2), 5-17.
- Cohen, A.S., Kane, M.T., & Crooks, T.J. (1999). A generalized examinee-centered method for setting standards on achievement tests. *Applied Measurement in Education*, 12(4), 343-366.
- Kane, M.T., Crooks, T.J., & Cohen, A.S. (1999). Designing and evaluating standard-setting procedures for licensure and certification tests. *Advances in Health Sciences Education*, 4, 195-207.
- Ibarra, R.A., & Cohen, A.S. (1999). Multicontextuality: A hidden dimension in testing and assessment. *GRE FAME Report Series, Vol. 3*.
- McHorney, C.A., & Cohen, A.S. (2000). Using Item Response Theory for equating measures of health status assessment: Practical and methodological challenges. *Medical Care*, 389, Supplement II.
- Cohen, A.S. (2000). High stakes testing in grades K - 12: Comments on Paris et al. *Issues in Education*, 6, 133-138.
- Cohen, A.S., Kane, M.T., & Kim, S.-H. (2001). The precision of simulation study results. *Applied Psychological Measurement*, 25(2), 136-145.
- Douglas, J., & Cohen, A.S. (2001). Nonparametric item response function for assessing model fit. *Applied Psychological Measurement*, 25(3), 234-243.
- Cohen, A.S., Bottge, B.A., & Wells, C.S. (2001). Using item response theory to assess effects of mathematics instruction in special populations. *Exceptional Children*, 68(1), 23-44.
- Wollack, J.A., Cohen, A.S., & Serlin, R.C. (2001). Defining error rates and power for detection of answer copying. *Applied Psychological Measurement*, 25(4), 385-404.
- Bolt, D.M., Cohen, A.S., & Wollack, J.A. (2001). A mixture model for multiple choice data. *Journal of Educational and Behavioral Statistics*, 26(4), 381-409.

- Kim, S.-H., & Cohen, A.S. (2002). A comparison of linking and concurrent calibration under the graded response model. *Applied Psychological Measurement, 26*(1), 25-41.
- Wollack, J.A., Bolt, D.M., Cohen, A.S., & Lee, Y.-S. (2002). Recovery of item and ability parameters in the nominal response model: A comparison of marginal maximum likelihood estimation and Markov chain Monte Carlo methods. *Applied Psychological Measurement, 26*(3), 339-352.
- Bolt, D. M., Cohen, A. S., & Wollack, J. A. (2002). Item parameter estimation under conditions of test speededness: Application of a mixture Rasch model with ordinal constraints. *Journal of Educational Measurement, 39*(4), 331-348.
- Wollack, J. A., Cohen, A. S., & Wells, C. S. (2003). A method for maintaining scale stability in the presence of test speededness. *Journal of Educational Measurement, 40*, 307-330.
- Li, Y., Cohen, A.S., & Ibarra, R.A. (2004). Characteristics of mathematics items associated with gender DIF. *International Journal of Testing, 4*(2), 115-136.
- Cohen, A. S., & Bolt, D. M. (2005). A mixture model analysis of differential item functioning. *Journal of Educational Measurement, 42*(2), 133-148.
- Cohen, A.S., Gregg, N., & Deng, M. (2005). The role of extended time and item content on a high-stakes mathematics test. *Learning Disabilities: Research and Practice, 20*(4), 225-233.
- Kim, S.-H., Lin, Y.-H., & Cohen, A.S. (2006). LDIP: A computer program for local dependence indices for polytomous items. *Applied Psychological Measurement, 30*, 509-510.
- Kang, T.-H., & Cohen, A.S. (2006). A mixture IRT approach to differential item functioning. *Journal of Education Evaluation, 19*, 165-192.
- Hong, J.Y., Li, F., Cho, S.-J., Schutz, P.A., & Cohen, A.S. (2006). Why students do not respond to NAEP reading questions: The relationship between students' response patterns and reading motivation. *Sun-Chung-Uh-Mun, 34*, 179-199.
- Kim, S.-H., Cohen, A.S., Alagoz, C., & Kim, S. (2007). DIF detection and effect size measures for polytomously scored items. *Journal of Educational Measurement, 44*(2), 93-116.
- Kang, T.-H., & Cohen, A.S. (2007). IRT model selection methods for dichotomous items. *Applied Psychological Measurement, 31*(4), 331-358.
- Webb, M.-Y., Cohen, A. S., & Schwanenflugel, P. (2008). A mixture model analysis of differential item functioning on the Peabody Picture Vocabulary Test-III. *Educational and Psychological Measurement, 68*(2), 335-351.
- Goegebeur, Y., De Boeck, P., Wollack, J. A., & Cohen, A. S. (2008). A speeded item response model with gradual process change. *Psychometrika, 73*(1), 65-87.



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- Li, F., Cohen, A.S., Kim, S.-H., & Cho, S.-J. (2009). Model selection methods for dichotomous mixture IRT models. *Applied Psychological Measurement, 33*(5), 353-373.
- Kang, T.-H., Cohen, A.S., & Sung, H.-J. (2009). IRT model selection methods for polytomous items. *Applied Psychological Measurement, 33*(7), 499-518.
- Wells, C.S., Cohen, A.S., & Patton, J. (2009). A range-null hypothesis approach for testing DIF under the Rasch model. *International Journal of Testing, 9*(4), 310-332.
- Cho, S.-J., & Cohen, A.S. (2010). A multilevel mixture model with applications to DIF. *Journal of Educational and Behavioral Statistics, 35*(3), 336-370.
- Cho, S.-J., Cohen, A.S., Kim, S.-H., & Bottge, B.A. (2010). Latent transition analysis with a mixture item response theory measurement model. *Applied Psychological Measurement, 34*(7), 583-604.
- Izsák, A., Orrill, C. H., Cohen, A. S., & Brown, R. E. (2010). Measuring middle grades teachers' understanding of rational numbers with the mixture Rasch model. *Elementary School Journal, 110*(3), 279-300.
- Cho, S.-J., Bottge, B. A., Cohen, A. S., & Kim, S.-H. (2011). Detecting cognitive change in the math skills of low-achieving adolescents. *Journal of Special Education, 45*(2), 67-76.
- Alexeev, N., Templin, J. L., & Cohen, A. S. (2011). Spurious latent classes in the mixture Rasch model. *Journal of Educational Measurement, 48*(3), 313-332.
- Li, F., Cohen, A. S., & Shen, L. (2012). Investigating item position effects in computer-based tests. *Journal of Educational Measurement, 49*(4), 362-379.
- Cho, S.-J., Cohen, A. S., & Bottge, B. A. (2013). Detecting intervention effects using a multilevel latent transition analysis with a mixture IRT model. *Psychometrika, 78*, 576-600.
- Cho, S.-J., Cohen, A. S., & Kim, S.-H. (2013). Markov Chain Monte Carlo estimation of a mixture item response theory model. *Journal of Statistical Computation and Simulation, 83*(2), 278-306.
- Cho, S.-J., Cohen, A. S., & Kim, S.-H. (2014). A mixture group bi-factor model for binary responses. *Structural Equation Modeling, 21*(3), 375-395.
- Buxton, C., Alleksaht-Snyder, M., Aghasaleh, R., Kayumova, S., Kim, S., Choi, Y.-J., & Cohen, A. S. (2014). Potential benefits of bilingual constructed response science assessments for understanding bilingual learners' emergent use of the language of scientific investigation practices. *Double Helix: A Journal of Critical Thinking and Writing, 2*, 1-21.

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- Buxton, C. Allexaht-Snider, M., Kayumova, S., Aghasaleh, R., Choi, Y., & Cohen, A. (2015). Teacher agency and professional learning: Rethinking fidelity of implementation as multiplicities of enactment. *Journal of Research in Science Teaching, 52*(4), 489-502.
- Raczynski, K., Cohen, A. S., Lu, Z., & Engelhard, G. (2015). Comparing the effectiveness of rater training methods using generalized linear mixed models. *Journal of Educational Measurement, 52*(3), 301-318.
- Brown, C. L., Templin, J. L., & Cohen, A. S. (2015). Comparing the two- and three-parameter logistic models via likelihood ratio tests: A commonly misunderstood problem. *Applied Psychological Measurement, 39*(5), 335-348.
- Choi, Y.-J., Alexeev, N., & Cohen, A. S. (2015). Differential item functioning analysis using a mixture 3-parameter logistic model with a covariate on the TIMSS 2007 mathematics test. *International Journal of Testing, 15*(3), 239-253. DOI: 10.1080/15305058.2015.1007241.
- Wollack, J. A., Cohen, A. S., & Eckery, C. (2015). Detecting test tampering using item response theory. *Educational and Psychological Measurement, 75*(6), 931-953.
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- Li, F., Cohen, A. S., Bottge, B. A., & Templin, J. (2016). A latent transition analysis model for assessing change in cognitive skills. *Educational and Psychological Measurement, 76*(2), 181-204).
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- Kim, S., Kwak, M., Cardozo-Gaibisso, L.A., Buxton, C.A., & Cohen, A.S. (2017). Statistical and qualitative analyses of students' answers to a constructed response test of science inquiry knowledge. *Journal of Writing Analytics, 1*(1), 82-102.
- Sen, S., Kim, S.-H., & Cohen, A.S. (2017). Comparative analysis of common statistical models used for value-added assessment of school performance. *Journal of Measurement and Evaluation in Education and Psychology, 8*(3), 303-310.

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- Kim, S., Lu, Z., & Cohen, A.S. (2018). An improved estimation using Polya-Gamma augmentation for Bayesian structural equation models with dichotomous variables. *Measurement: Interdisciplinary Research and Perspectives, 16*(2), 81-91.
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- Shermis, M.D., & Cohen, A. S. (2018) International and national perspectives on machine scoring. *Applied Measurement in Education, 31*(3), 175-176.
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- Jang, Y., Kim, S.-H., & Cohen, A.S. (2018). The impact of multidimensionality on extraction of latent classes in mixture Rasch models. *Journal of Educational Measurement, 55*(3), 403-420.
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- Olmez, I.B., & Cohen, A.S. (2018). A mixture partial credit analysis of math anxiety. *International Journal of Assessment Tools in Education, 5*(4), 611-630.
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- Cohen, A.S., Kane, M.T., & Crooks, T.J. (1998, April). *A generalized examinee-centered method for setting standards on achievement tests*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Kim, S.-H., Cohen, A.S., DiStefano, C.A., Kim, S. (1998, April). *An investigation of the likelihood ratio test for detection of differential item functioning under the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Wollack, J.A., Cohen, A.S., & Serlin, R.C. (1998, April). *Defining error rates and power for detection of answer copying*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Cohen, A.S., & Ibarra, R.A. (1998, April). *The influence of cultural context on differential item functioning*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Ibarra, R.A., & Cohen, A.S. (1999, February). *Multicontextuality: A hidden dimension in testing and assessment*. Paper presented at the ETS Invitational Conference on Fairness, Access, Multiculturalism, and Equity (FAME), Princeton, NJ.
- Cohen, A.S., Kane, M.T., & Kim, S.-H. (1999, April). *The precision of simulation study results*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

- Kim, S.-H., & Cohen, A.S. (1999, April). *Accuracy of parameter estimation in Gibbs sampling under the two-parameter logistic model*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Wells, C. S., Subkoviak, M. J. & Cohen, A. S. (1999, April). *The effect of item parameter drift on ability estimates*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- McHorney, C.A., & Cohen, A.S. (1999, September). *Using Item Response for Equating Measures of Health Status Assessment: Practical and Methodological Challenges*. Paper presented at the U.S. Department of Health Care and Human Services, Agency for Health Care Policy and Research, Health Outcomes Methodology Symposium: Health Outcomes Measures in Assessing Treatment Effectiveness: Measurement Models, Validation, and Interpretation of Effects, Airlie House, Virginia.
- Cohen, A.S., Bottge, B.A., & Wells, C.S. (2000, April). *Using item response theory for assessing treatment effects of mathematics in special populations*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Wollack, J.A., Bolt, D.M., Cohen, A.S., & Lee, Y.-S. (2000, April). *Recovery of item and ability parameters in the nominal response model: A comparison of marginal maximum likelihood estimation and Markov chain Monte Carlo methods*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Kim, S.-H., & Cohen, A.S. (2000, April) *An Investigation of Ability Estimation in Gibbs Sampling*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Bolt, D.M., Cohen, A.S., & Wollack, J.A. (2001, April). *A mixture model for multiple choice data*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA also presented at the annual meeting of the International Psychometric Society, Kobe, Japan, (2001, July).
- Cohen, A. S., & Bolt, D. M. (2002, April). *A mixture model analysis of differential item functioning*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Cohen, A. S., Wollack, J. A., Bolt, D. M., & Mroch, A. A. (2002, April). *A Mixture Rasch Model Analysis of Test Speededness* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Wollack, J. A., Cohen, A. S., & Wells, C. S. (2002, April). *The Effects of Test Speededness on Score Scale Stability*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

- Cohen, A. S., & Webb, N. L. (2002, April). *Technical Issues: Precision, Inference and the Exploration of Differences in Student Performance on NAEP*.
- Webb, N., Cohen, A. S., & Kang, T-H. (2002, April). A comparison of SSI and Non-SSI performance On State NAEP mathematics assessment items. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Cohen, A.S. (2002, April). *Standard setting methods for state bar examinations*. Paper presented at the biennial spring meeting of the National Conference of Bar Examiners, Chicago, IL.
- Wollack, J.A., Wells, C.S., & Cohen, A.S. (2003, April). *A comparison of item- and testlet-level scoring on scale stability in the presence of test speededness*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Li, Y., Cohen, A.S., & Ibarra, R.A. (2003, April). *Characteristics of mathematics items associated with gender DIF*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Li, Y., & Cohen, A.S. (2003, April). *Equating tests composed of testlets: A comparison of a testlet response model and four polytomous response models*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Kang, T-H., & Cohen, A.S. (2003, April). *A mixture model analysis of ethnic group DIF*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Kang, T-H., & Cohen, A.S. (2004, April). *IRT model selection methods for dichotomous items*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Seong, T.-J., Lee, Y.-S., Suh, Y., & Cohen, A.S. (2004, April). *Examining Type I Error and Power for Detection of Differential Item and Testlet Functioning*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Wollack, J.A., & Cohen, A.S. (2004, April). *A model for simulating speeded test data*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
- Cohen, A.S., & Ibarra, R.A. (2004, September). *Some observations on examining differential item functioning in standardized tests*. Paper presented at the national symposium Multicontextuality, Unity and Diversity in a Pluralistic Society, September 17-19, 2004, The University of New Mexico, Albuquerque, NM.
- Cohen, A.S., Gregg, N., & Deng, M. (2004, October). *A mixture model analysis of the item level impact of testing accommodations*. Paper presented at the annual conference of the International Test Commission, The College of William and Mary, Williamsburg, VA.



- Cohen, A.S. (2004, October). *Some alternative perspectives on examining differential item functioning in standardized tests*. Paper presented at the annual conference of the International Test Commission, The College of William and Mary, Williamsburg, VA.
- Cohen, A.S. (2005, March). *Hidden information in students' answers to test questions*. Paper presented at the Carnegie Initiative on the Doctorate Lecture Series, Department of Educational Psychology & Instructional Technology, The UGA Alumni Center, Buckhead, Georgia.
- Cohen, A.S., Cho, S.-J., & Kim, S.-H. (2005, April). *A mixture IRT model for testlets*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Cohen, A.S., Michaels, H., & Deng, M. (2005, April). *A mixture IRT model analysis of context effects*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Kang, T.-H., & Cohen, A.S. (2005, April). *IRT model selection methods for polytomous items*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- Kim, S.-H., Oswalt, S.B., & Cohen, A.S. (2005, April). *An investigation of DIF detection methods for Likert-type items*. Paper presented at the annual conference of the American Educational Research Association. Montreal, CA.
- Lee, Y.-S., & Cohen, A.S. (2005, April). *Use of Bayesian model selection indices for detection of differential item functioning in testlet-based tests*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- Kane, M.T., Mroch, A.A. & Cohen, A.S. (2005, April). *Comparing logistic regression and linear equating to estimate cutscores for generalized examinee-centered standard setting*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- Wells, C.S., Cohen, A.S., & Serlin, R.A. (2005, April). *An equivalency test for differential item functioning*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- Kim, S.-H., Cohen, A.S., Alagoz, C., & Kim, S. (2005, April). *DIF detection and effect size measures for polytomously scored items*. Paper presented at the annual meeting of the American Educational Research Association. Montreal, Canada.
- Gregg, N., & Cohen, A.S. (2005, June). *The long-term impact of test accommodations on reading test performance*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Montreal, Canada.

- Li, F., Cohen, A.S., & Cho, S.-J. (2005, July). *A mixture model analysis of examinee motivation on a standardized achievement test*. Paper presented at the Tenth China - U.S. Conference on Education: Aligning assessment with instruction, Beijing, People's Republic of China.
- Goegebeur, Y., De Boeck, P., Wollack, J. A., & Cohen, A. S. (2005, August) *A speeded item response model with gradual process change*. Paper presented at the annual meeting of the Psychometric Society, Tilburg, NE.
- Cohen, A.S. (2005, October). *A multilevel mixture IRT model for educational data*. Paper presented at the October, 2005 meeting of the National Assessment of Educational Progress Design and Analysis Committee, National Center for Educational Statistics, Washington, DC.
- Bandalos, D.L., & Cohen, A.S. (2006, April). *Using factor mixture models to identify differentially functioning test items*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Hong, J.Y., Li, F., Cho, S.-J., Schutz, P.A., & Cohen, A.S. (2006, April). *Why students do not respond to NAEP reading questions: The relationship between students' response patterns and reading motivation*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Wells, C.S., & Cohen, A.S. (2006, April). *Use of iterative linking with an equivalency test for DIF*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Li, F., Cohen, A.S., Kim, S.-H., & Cho, S.-J. (2006, April). *Model selection methods for dichotomous mixture IRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Webb, M.-Y., Cohen, A. S., & Schwanenflugel, P. (2006, April). *A mixture model analysis of differential item functioning on the Peabody Picture Vocabulary Test-III*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Lin, Y.-H., Kim, S.-H., & Cohen, A.S. (June, 2006). *Local dependence indices and detection investigation for polytomous items*. Paper presented at the International Meeting of the Psychometric Society: The 71st annual meeting of the Psychometric Society, 2006, Montreal, Canada.
- Cho, S.-J., Cohen, A.S., & Kim, S.-H. (2006, June). *An investigation of priors on the probabilities of mixtures in the mixture Rasch model*. Paper presented at the annual meeting of the Psychometric Society, Montreal, CN.
- Li, F., & Cohen, A.S. (2006, June). *A higher-order DINA Rasch model for detection of differential item functioning*. Pacific Rim Objective Measurement Symposium, Hong-Kong, China.

- Cohen, A.S. (November, 2006). *DIF detection procedures for the FCAT*. Paper presented at the annual meeting of the Florida Educational Research Association, Jacksonville, FL.
- Li, F., Cohen, A.S., & Bottge, B.A. (2007, April). *A latent transition analysis model for assessing change in cognitive skills across repeated measures*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Kim, S., Kim, S.-H., & Cohen, A.S. (April, 2007). *On effect size for DIF in polytomously scored items*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Kim, S.-H., & Cohen, A.S. (April, 2007). *Detection of DIF in multiple groups using a MANOVA approach*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Cho, S.-J., Cohen, A.S., Kim, S.-H., & Bottge, B.A. (April, 2007). *Latent transition analysis with a mixture item response theory measurement model*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Cho, S.-J., & Cohen, A.S. (July, 2007). *A multilevel IRT model for DIF analysis*. Paper presented at the International Meeting of the Psychometric Society, Tokyo, Japan.
- Kim, S.-H., & Cohen, A.S. (July, 2007). *A Brief history of testing in the ancient world and its implications today*. Paper presented at the International Meeting of the Psychometric Society, Tokyo, Japan.
- Kim, I., Cohen, A.S., & Bandalos, D.L. (July, 2007). *A comparison of Bayesian and maximum likelihood algorithms for estimation of a multilevel IRT model*. Paper presented at the International Meeting of the Psychometric Society, Tokyo, Japan.
- Cohen, A.S. (October, 2007). *Detection of differential functioning in motor behavior tasks*. Paper presented at the Cooper Institute Conference, Dallas, Texas.
- Cho, S.-J., & Cohen, A.S. (November, 2007). *A multilevel mixture model for DIF analysis*. Paper presented at the 6th Annual Fellowship Award Meeting, The College Board, New York, N.Y.
- Recesso, A., Templin, S., Ekici, C., & Cohen, A. (2007, November). *Evidential reasoning in teacher assessment*. Poster presented at the 2007 annual meeting of the Society for Judgment and Decision Making in Long Beach, California.
- Cohen, A.S. (December, 2007). *Hidden information in answers to test questions*. Paper presented at HumRRO, Louisville, KY.
- Wang, A., & Cohen, A.S. (March, 2008). *Evaluation of three test speededness models*. Graduate Student Interdisciplinary Conference, University of Georgia, Athens, GA.

- Li, F., Templin, J. & Cohen, A.S. (March, 2008). *A relaxed higher-order DINA model for attribute-level DIF*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Templin, J., Cohen, A.S., & Henson, R. (March, 2008). *Constructing tests for optimal classification in standard setting*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Cho, S.-J., Cohen, A.S., & Templin, J. (March, 2008). *A Multidimensional mixture IRT model for DIF analysis*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Wells, C.S., Cohen, A.S., & Patton, J. (March, 2008). *A range-null hypothesis approach for testing DIF under the Rasch model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Choi, H.-J., & Cohen, A.S. (March, 2008). *A Bayesian approach to estimation of person-fit in the testlet model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Cohen, A.S. (March, 2008). *Analyzing tests with mixture IRT models*. Presented at Center for Educational Assessment, the University of Massachusetts, Amherst, MA.
- Wang, A., & Cohen, A.S. (July, 2008). *Evaluation of three test speededness models*. Paper presented at the International Meeting of the Psychometric Society, Durham, NH.
- Choi, H.-J., Templin, J.L., Henson, R.A., & Cohen, A.S. (April, 2009). *A mixture Rasch diagnostic model for mediating attributes and ability*. Paper at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Cohen, A.S., Templin, J.L., & Bradshaw, L. (April, 2009). *Beyond unidimensionality: Measuring all of achievement*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Cho, S.-J., Bottge, B.A., Cohen, A.S., & Kim, S.-H. (April, 2009). *Effects of Enhanced Anchored Instruction: A latent transition analysis with a mixture item response theory measurement model*. Paper presented at the annual convention of the American Educational Research Association, San Diego, CA.
- Wang, A., & Cohen, A.S. (April, 2009). *A mixture nominal response model for test speededness*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.
- Choi, Y.-J., & Cohen, A.S. (April, 2009). *A mixture model analysis of DIF on TIMSS 2003*. Graduate Student poster presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.

- Alexeev, N., & Cohen, A. S. (June, 2009). *Factors contributing to latent class membership on a high school mathematics test*. Poster presented at the annual Institute of Education Sciences Research Conference, Washington, DC.
- Choi, H-J., Templin, J.L., Cohen, A.S., & Henson, R.A. (2009, July). *A diagnostic classification mixture IRT model*. Paper presented at the International Meeting Psychometric Society, Cambridge, UK.
- Orrill, C., & Cohen, A. S. (April, 2010). Does it Work? Building Methods for Studying the Effects of Professional Development. In Izsák, A., & Lobato, J. *Using Psychometrics to Advance Assessment in Mathematics Education*. Pre-session presented at the annual conference of the National Council of Teachers of Mathematics, San Diego, CA.
- Li, F., & Cohen, A.S. (May, 2010). *A random-effects Rasch model and a random-effects response time model for detecting item location effects*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Bradshaw, L.P., Templin, J.L., & Cohen, A.S. (May, 2010). *Accuracy of multidimensional item response model parameters estimated under small sample size*. Paper presented at the annual meeting of the American Educational Research Association meeting, Denver, CO.
- Wang, A., & Cohen, A.S. (2010, May). *A cross-classified model for test speededness*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
- Choi, Y.-J., Alexeev, N., & Cohen, A.S. (2010, May). *A mixture 3PL model analysis of DIF on the TIMSS 2007 mathematics test*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
- Choi, H. J., Templin, J. L., Cohen, A. S., & Atwood, C. H. (2010, May). *The impact of model misspecification on estimation accuracy in diagnostic classification models*. Paper presented at the meeting of the National Council on Measurement in Education, Denver, CO.
- Alexeev, N., Templin, J.L., & Cohen, A.S. (2010, May). *Factors influencing the formation of latent classes*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
- Paek, I., Cho, S.-J., & Cohen, A.S. (2010, May). *A comment on scale linking in mixture IRT modeling*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, Co.
- Choi, Y.-J., Cohen, A. S., & Bandalos, D. L. (2010, July). *Structural modeling of TIMSS mathematics test data*. Paper presented at the 7th Conference of the International Test Commission, Hong Kong, China.

- Alexeev, N., Cohen, A. S., & Templin, J. (2010, July). *Applying mixture IRT models to TIMSS data*. Paper presented at the 7th Conference of the International Test Commission, Hong Kong, China.
- Choi, H.-J., & Cohen, A. S. (2010, July). *Can assessment help enhance reading literacy? Lessons from PIRLS*. Paper presented at the 7th Conference of the International Test Commission, Hong Kong, China.
- Wang, A., & Cohen, A. S. (July, 2010). *A cross-classified IRT model for differential item and test-let functioning*. Paper presented at the 7th Conference of the International Test Commission, Hong Kong, China.
- Choi, Y.-J., Kim, S.-H., & Cohen, A. S. (2011, April). *Detection of differential item functioning in multiple groups*. Paper presented to the annual meeting of the National Council on Measurement in Education, New Orleans, LA.
- Bottge, B.A., Toland, M. D., Cohen, A.S., Cho, S.-J., & Ma, X. (April, 2011). *Evaluating the Efficacy of Enhanced Anchored Instruction for Middle School Students with Learning Disabilities in Math*. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
- Wang, A., & Cohen, A.S. (April, 2011). *A multidimensional cross-classified IRT model*. Paper presented to the annual meeting of the National Council on Measurement in Education, New Orleans, LA.
- Iszák, A., Wang, A., Cohen, A.S., Orrill, C.H. (April, 2011). *Effects of middle grades teachers' understandings of rational numbers on student achievement*. Paper presented at the annual convention of the American Educational Research Association, New Orleans, LA.
- Alexeev, N., Cohen, A.S., Templin, J. L., Gregg, N., & Jenkins, C.L. (April, 2011). *Factors Affecting the Formation of Latent Classes in Mixture IRT Models*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.
- Bottge, B.A., Cohen, A.S., Cho, S.-J., & Gassaway, L. (April, 2011). *Using Assessment Tools to Develop Students' Understanding of Mathematics Problems*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Kim, S.-H, Cohen, A. S., Choi, Y.-J., Cho, S.-J, & Kim, S. (July, 2011). *Detection of differential item functioning in multiple groups using item response theory models*. Paper presented at the International Meeting of the Psychometric Society, Hong Kong, China.
- Choi, Y.-J., Cohen, A. S., & Kim, S.-H. (July, 2011). *Detection of differential item functioning in MULTILOG and IRTLRFID*. Paper presented at the International Meeting of the Psychometric Society, Hong Kong, China.

- Buxton, C. A., Alexsaht-Snider, M., Suriel, R., Gabbitas, B., Cohen, A. S., & Choi, Y.-J. (April, 2012). *Educative assessments for English language learners: The values of increased student writing in science*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, British Columbia.
- Jenkins, C. L., Templin, J. L., & Cohen, A. S. (April, 2012). *Comparing the two- and three-parameter logistic models via likelihood ratio tests: A commonly misunderstood problem*. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, British Columbia, CA.
- Wells, C. S., Cohen, A. S., Serlin, R. C., & Bahry, L. (April, 2012). *Detecting consequential item parameter drift using the range-null hypothesis*. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, British Columbia, CA.
- Lu, Z., Zhang, Z., & Cohen, A. S. (April, 2012). *Latent Growth Curve Models with Non-ignorable Missing Data*. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, British Columbia, CA.
- Sen, S., Cohen, A. S., & Kim, S.-H. (July, 2012). *Dimensionality check using several programs*. Paper presented at the International Meeting of the Psychometric Society, Lincoln, NE.
- Bradshaw, L., Brown, C., Cohen, A., Madison, M., & Templin, J. (2012, December). *Evaluating the statistical properties of epistemic network analysis*. Poster presented at the 4th Annual Discovery Research K-12 Meeting in Madison, Wisconsin.
- Buxton, C., Alexsaht-Snider, M.A., & Cohen, A. (2012, December). *Classroom tools for supporting science inquiry practices and academic language development for ELLs*. Feedback session at the annual meeting of National Science Foundation Principal Investigators for Discovery Research K-12 Projects. Washington, D.C.
- Buxton, C., Alexsaht-Snider, M.A., & Cohen, A. (2013, February). *Language-rich inquiry science with English language learners*. Poster presented at the University of Georgia College of Education Faculty Research Conference. Athens, GA.
- Wollack, J. A., Cohen, A. S., Eckerly, C. (April, 2013). *Detecting test tampering using item response theory*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Lu, Z., Zhang, Z., & Cohen, A. S. (April, 2013). *Bayesian model selection criteria for latent growth models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Choi, Y.-J., & Cohen, A. S. (April, 2013). *Metric identification in the mixture IRT model*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

- Alagoz, C., Kim, S.-H., & Cohen, A. S. (April, 2013). *Item fit evaluation for higher-order DINA model under Q-matrix misspecification with a Bayesian estimation approach*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Cohen, A.S. (April, 2013). *Some thoughts on measuring more of what students know*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Huang, H.-Y., & Cohen, A. S. (April, 2013). *A multilevel mixture 2PL-IRT model for detection of DIF*. Paper presented at the annual meeting of the National Council on Measurement in Education. San Francisco, CA.
- Jang, Y., Lu, Z., & Cohen, A. S. (July, 2013). *Comparison of nested models for multiply imputed data*. Paper presented at the 2013 International Meeting of the Psychometric Society. Arnhem, The Netherlands.
- Sen, S., Cohen, A. S., & Lu, Z. (July, 2013). *Sensitivity of mixture IRT models to distributional assumptions*. Paper presented at the 2013 International Meeting of the Psychometric Society. Arnhem, The Netherlands.
- Ong, M. L., Lu, Z., Lee, S., & Cohen, A. S. (July, 2013). *A comparison of multilevel modeling, structural equation modeling, and the likelihood ratio test for detecting differential item functioning (DIF)*. Paper presented at the International Meeting of Psychometric Society (IMPS), Arnhem, The Netherlands.
- Qin, S., & Cohen, A. S. (July, 2013). *Multilevel detection of possible test tampering: An empirical example*. Paper presented at the 2013 International Meeting of the Psychometric Society. Arnhem, The Netherlands.
- Sen, S., Cohen, A. S., & Kim, S.-H. (2013, July). *Robustness of MCMC estimation to latent nonnormality in the mixture IRT models*. Paper presented at the annual International Meeting of the Psychometric Society. Arnhem, The Netherlands.
- Raczynski, K., Cohen, A., & Lu, Z. (2013, August). *Modeling the effects of training and trainers on rater accuracy*. Paper presented at the Annual Convention of the American Psychology Association 2013, Honolulu, HI.
- Qin, S., & Cohen, A. S. (November, 2013). *Multilevel detection of possible test tampering: A simulation study*. Paper presented at the Test Fraud Conference, Madison, WI.
- Lu, Z., & Cohen, A. S. (February, 2014). *Bayesian model selection for latent growth models*. Poster presented at the annual College of Education Faculty Research Conference. University of Georgia: Athens, GA.



- Oliver, J. S., Jang, Y., Hodges, G.W., Cohen, A.S., & Robertson, T.P. (March, 2014). *Models and methods in science education*. Paper presented at the annual meeting of the National Association for Research in Science Education, Pittsburgh, PA.
- Oliver, J. S., Hodges, G. W., Kwon, K.-A., Raven, S. P., Rogers, W., Jurkiewicz, M., Cohen, A. S., Jang, Y., Moore, J. N., & Robertson, T.P. (April, 2014). *High school student accomplishment of cellular biology content using 3-D computer based modules*. Paper presented at the annual meeting of the National Association for Research in Science Education, Pittsburgh, PA.
- Choi, Y.-J., Cohen, A. S., & Lu, Z. (April, 2014). *The impact of equating on detection of treatment effects*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.
- Jang, Y., Lu, Z., & Cohen, A.S. (April, 2014). *A comparison of likelihood functions of multiple imputation for nested models*. Paper presented at the annual meeting of the National Council on Measurement in Education, Philadelphia, PA.
- Jang, Y., Bradshaw, L., Oliver, J. S., Hodges, G. W., Cohen, A. S., Rogers, W., Kwon, K.-A., Raven, S., Jurkiewicz, M., Moore, J.N., & Robertson, T.P. (April, 2014). *Diagnosing students' mastery of concepts in biology: An examination of mastery states before and after instruction based on 3-D animations*. Paper presented at the annual meeting of the American Educational Research Association, Special Interest Group on Cognition and Assessment, Philadelphia, PA.
- Alagoz, C., & Cohen, A. S. (July, 2014). *A SAS/IML macro for DINA (Deterministic Input, Noisy "And" Gate) Model*. Paper presented at the annual meeting of the International Test Commission, San Sebastian, Spain.
- Wang, J., Lu, Z., & Cohen, A. S. (July, 2014). *The sensitivity of hierarchical linear models to outliers*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Ong, M. L., Kim, S.-H., Cramer, S., & Cohen, A. S. (July, 2014). *A comparison of differential item functioning (DIF) detection for dichotomously scored items by using IRTPRO, BILOG-MG 3, and IRTLRDIF*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Raczynski, K., Cohen, A. S., Lu, Z., & Engelhard, G. (July, 2014). *Comparing the effectiveness of rater training methods using generalized linear mixed models*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Choi, Y.-J., & Cohen, A. S. (July, 2014). *A simulation study for metric identification in mixture IRT models*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.

- Sen, S., Kim, S.-H., & Cohen, A. S. (July, 2014). *Model selection for multilevel mixture Rasch models*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Kim, M., Choi, H.-Y., Choi, Y.-J., & Cohen, A. S. (July, 2014). *Model selection for random item mixture IRT models*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Kim, S.-H., Bao, Y., Horan, E., Kim, M., & Cohen, A. S. (July, 2014). *Gauss-Hermite quadrature in marginal maximum likelihood estimation of item parameters*. Paper presented at the International Meeting of the Psychometric Society, Madison, WI.
- Choi, H.-J., Cohen, A. S., & Bottge, B. A. (February, 2015). *Intervention effects on fractions computation error patterns of middle school students with and without math disabilities*. Poster presented at the annual College of Education Research Conference, Athens, GA.
- Kim, S., Lu, Z., & Cohen, A. S. (April, 2015). *Investigating responses and missingness using item response tree models: Illustration with empirical data*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Hodges, G. W., Oliver, J.S., Jeong, S., Cohen, A. S., Jang, Y., Robertson, T., & Ducrest, D. (April, 2015). *Leveraging technology to measure student learning during inquiry based virtual case studies in introductory biology*. Paper presented at the annual conference of the National Association of Research in Science Teaching, Chicago, IL.
- Choi, H.-J., Cohen, A. S. & Bottge, B., (April, 2015). *A random item mixture nominal response model*. Paper presented at the annual meeting of the National Council for Measurement in Education, Chicago, IL.
- Karadavut, T., Cohen, A. S., & Kim, S.-H. (April, 2015). *Continuous latent variables as covariates in a mixture Rasch model*. Paper presented at the annual meeting of the National Council for Measurement in Education, Chicago, IL.
- Jang, Y., Cohen, A. S., & Stanger-Hall, K. F. (2015, July). *Learning biological processes with animated case studies*. Poster presented at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Kim, S., Lu, Z. & Cohen, A. (2015, July). *Investigating omission tendency on a test using a tree-based item response model: Illustration with empirical data*. Paper presented at the International Meeting of the Psychometric Society (IMPS) 2015 Annual Meeting, Beijing, China.
- Kim, M., Lu, Z. & Cohen, A. (2015, July). *Comparison of random effects and fixed effects item response models on detection of a multilevel treatment effect*. Paper presented at the International Meeting of the Psychometric Society (IMPS) 2015 Annual Meeting, Beijing, China.

- Kim, S., Lu, Z. & Cohen, A. (2015, July). *A structural equation modeling approach to the estimation of reliability for a test with items of different numbers of ordered categories*. Paper presented at the International Meeting of the Psychometric Society (IMPS) 2015 Annual Meeting, Beijing, China.
- Kim, M., Choi, H.-J., Choi, Y.-J., & Cohen, A. S. (2015, July). *Model selection in random item mixture IRT models*. Paper presented at the International Meeting of the Psychometric Society Annual Meeting, Beijing, China.
- Kim, M., Cohen, A. S., Lu, Z., Kim, S., Buxton, C., & Alleksaht-Snyder, M.A. (2016, April). *Speededness in testlet-based constructed response tests*. Paper presented at the 2016 annual meeting of the National Council on Measurement in Education, Washington, D.C.
- Jang, Y., Kim, S.-H., & Cohen, A. S. (2016, April). *Sensitivity to multidimensionality of mixture IRT models*. Paper at the 2016 annual meeting of the National Council on Measurement in Education, Washington, D.C.
- Choi, H.-J., Cohen, A. S., & Bottge, B. A. (2016, April). *A multilevel mixture random item nominal response IRT model for error analysis*. Paper presented at the 2016 annual meeting of the National Council on Measurement in Education, Washington, D.C.
- Karadavut, T., & Cohen, A. S. (2016, April). *Effects of a skewed t distribution on estimation of mixture IRT parameters in non-normal distributions*. Paper presented at the 2016 annual meeting of the National Council on Measurement in Education, Washington, D.C.
- Kim, S., Kwak, M., & Cohen, A.S. (2016, April). *A mixture generalized partial credit model analysis using language-based covariates*. Poster presented at the 2016 annual meeting of the American Educational Research Association, Research in Progress section, Washington, DC.
- Olmez, I. B., & Cohen, A. S. (2016, April). *Mixture Rasch modeling of math anxiety*. Poster presented at the annual College of Education Research Conference, Athens, GA: University of Georgia.
- Kim, S., Cohen, A. S., & Kwak, M. (2016, July). *A mixture partial credit model analysis using language-based covariates*. Paper presented at the 2016 International meeting of the Psychometric Society, Asheville, NC.
- Kim, S., Kwak, M., Cardozo-Gaibisso, L., Buxton, C.B., & Cohen, A.S. (2017, January). *Statistical and qualitative analyses of students' answers to a constructed response test of science inquiry knowledge*. Paper presented at the 4th annual Writing Analytics Conference, St. Petersburg, FL.
- Kwak, M., Kim, S., & Cohen, A.S. (2017, January). *Latent Dirichlet analysis of text constructed response answers*. Paper presented at the 4th annual Writing Analytics Conference, St. Petersburg, FL.

- Wang, L., Hodges, G., Cohen, A.S., & Jang, Y. (2017, April). *The impact of a blended learning environment on students' understanding: The case of redox reaction*. Paper presented at the annual conference of the National Association of Science Teachers. San Antonio, TX.
- Bottge, B. A., Gassaway, L., Cohen, A. S., & Choi, H.-J. (2017, April). *Comparing effects of a math intervention delivered in resource and inclusive classrooms*. Paper presented at the annual meeting of the Council on Exceptional Children, Boston, MA.
- Sen, S., & Cohen, A.S. (2017, April). *Analysis of TIMSS 2011 data using a multilevel mixture Rasch model*. Paper presented at the 11th Annual Meeting of the International Multilevel Conference, University of Utrecht, Netherlands.
- Lee, J., & Cohen, A.S. (2017, April). *The impact of DIF methodology on metric identification in mixture IRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Kim, M., & Cohen, A.S. (2017, April). *A random item testlet model for speededness in constructed response items*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Choi, Y.-J., & Cohen, A.S. (2017, April). *The effects of recoding on mixture IRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Wang, A., Cohen, A.S., Zhang, Y., & Mueller, L. (2017, April). *Examining the performance of lz for test security under speededness conditions*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Karadavut, T., & Cohen, A.S. (2017, April) *Linking in mixIRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Choi, H.-J., Cohen, A.S., Clark, C., & Espy, K. (2017, April). *A mixture IRT model with a response time covariate*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Zheng, G., Choi, H.-J., Bottge, B.A., & Cohen, A.S. (2017, April). *A preliminary study on mixed membership with the Rasch model*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Kwak, M., Kim, S., & Cohen, A.S. (2017, April). *Mining students' constructed response answers*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.
- Jang, Y., & Cohen, A.S. (2017, April). *The impact of Markov chain convergence on estimation of mixture IRT models*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Antonio, TX.

- Kim, S., Lu, Z., & Cohen, A.S. (2017, July). *Topic modeling for longitudinal text data*. Paper presented at the annual International Meeting of the Psychometric Society, Switzerland.
- Sensibaugh, C.A., Choi, H.-J., Cohen, A.S., & Lemons, P.P. (2017, July). *The SAVI survey: Self-appraisal, values and intentions*. Poster presented at the annual meeting of the Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Olmez, I. Burak & Cohen, A.S. (2017, October). *Detecting math anxiety with a mixture partial credit model*. Research Report presented at the annual meeting of the 2017 Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Raczynski, K., Wang, J., Engelhard, G., & Cohen, A.S. (2018, April). *Addressing scoring challenges in a new era of integrated writing (IW) assessments*. Paper presented at the annual meeting of the International Objective Measurement Workshop, New York, NY.
- Kim, S.-H, Cohen, A.S., Kwak, M., & Lee, J. (2018, April). *Specification of priors in Bayesian estimation under the Rasch model*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Kwak, M., Kim, S., Choi, H.-J., Xiong, J., & Cohen, A.S. (2018, April). *Topic model analysis of constructed response items on a formative test*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Choi, H.-J. & Cohen, A.S. (2018, April). *Impact of misspecification on a nonlinear reliability for internal consistency for categorical data*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Kim, M. & Cohen, A.S. (2018, April). *Exploring characteristics of speeded examinees using LDA*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Kim, S.-H., Cohen, A.S., Cho, S.-J., & Eom, H.-J. (2018, April). *Use of information criteria in the study of group differences in trace lines*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Kim, S., Lu, Z., & Cohen, A.S. (2018, April). *Supervised text analysis for mixture groups*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Choi, H.-J., Kwak, M., Xiong, J., Kim, S., & Cohen, A.S. (2018, July). *An application of a topic model to constructed responses in formative assessments*. Paper presented at the International Meeting of the Psychometric Society, New York.
- Kwak, M., Xiong, J., Kim, S., Choi, H.-J., & Cohen, A.S. (2018, July). *Dirichlet Priors for Latent Dirichlet Analysis of Constructed Response Items*. Paper presented at the annual International Meeting Psychometric Society, New York, NY.

- Zheng, G., Choi, H.-J., Cohen, A.S. & Bottge, B. (2018, July). *A mixed membership Rasch model*. Paper presented at the annual meeting of the International Meeting Psychometric Society, New York, NY.
- Lee, J., & Cohen, A.S. (2018, July). *A threshold for detecting inattentive response behavior using mixture IRT*. Paper presented at the annual meeting of the International Psychometric Society, New York, NY.
- Xiong, J., Wang, J., Engelhard, G., & Cohen, A.S. (2018, July) *The calibrations of multiple-choice and constructed response items in English Language Arts*. Paper presented at the Pacific Rim Objective Measurement Workshop, Shanghai, China.
- Duong, E.V., Mellom, P., Weber, J., Gokee, R., & Cohen, A.S. (2019, April). *Examining the impact of instructional conversation on students' writing through topic model analysis*. Paper presented at the annual meeting of the American Educational Research Association. Toronto, CA.
- Kim, S., Lu, Z., & Cohen, A.S. (2019, April). *Longitudinal data analysis for text data*. Paper presented at the annual meeting of the American Educational Research Association. Toronto, CA.
- Hodges, G.L., Pritchard, K., Krishnan, S., Cohen, A.S., & Lee, J. (2019, April). *Leveraging technology to create ambitious science learning environments for elementary learners: Convergent mixed methods study*. Paper presented at the annual meeting of the American Educational Research Association. Toronto, CA.
- Raczynski, K.R., Garner, H., Choi, H.-J., & Cohen, A.S. (2019, April). *Toward improving the machine scorability of assessment items*. Paper presented at the annual meeting of the National Council on Measurement in Education. Toronto, CA.
- Wang, J., Lu, Z., Engelhard, G., & Cohen, A.S. (2019, April). *Examining rating designs with cross-classification multilevel Rasch models*. Paper presented at the annual meeting of the National Council on Measurement in Education. Toronto, CA.
- Kwak, M., Kim, S., Choi, H.-J., Xiong, J., & Cohen, A.S. (2019, April). *Stopword selection for latent Dirichlet Allocation analysis of constructed response items*. Paper presented at the annual meeting of the National Council on Measurement in Education. Toronto, CA.
- Lee, J., & Cohen, A.S. (2019, April). *Bayesian model selection for IRTree & MixIRT Models*. Poster presented at the annual meeting of the National Council on Measurement in Education, Toronto, CA.
- Kim, S.-H., Cohen, A.S., & Eom, H.J. (2019, April). *Three methods of item analysis*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, CA.

- Hodges, G.L., Pritchard, K.F., Lee, J., & Cohen, A.S. (2019, April). *A mixed methods study that compares learning gains associated with serious gameplay and hands-on science*. Paper presented at the NARST Annual International Conference, Baltimore, MD.
- Xiong, J., Choi, H.-J., Kwak, M., Kim, S., & Cohen, A.S. (2019, July) *Topic modeling of constructed-response answers on social studies assessments*. Paper presented at the 2019 International Meeting of the Psychometric Society, Santiago, Chile.
- Cardozo Gaibisso, L.A., Kim, S., Buxton, C., & Cohen, A.S. (2019, July). *Thinking beyond the score with SFL and text analysis: Multidimensional analysis of student assessment performance*. Paper presented at the 46th International Systemic Functional Congress, Santiago, Chile.
- Choi, H.-J., Lai, S., Xiong, J., Raczynski, K.R., Wheeler, J.M., Lee, J., & Cohen, A.S. (2019, October). *A new method for analyzing students' answers to constructed response items in formative assessments*. Paper presented at the annual meeting of the Georgia Educational Research Association, Macon, GA.
- Cardozo-Gaibisso, L., Kim, S., Buxton, C.A, & Cohen, A.S. (2020, April). *Multidimensional score analysis: Exploring the complexity of bilingual science constructed response assessments through mixed methods*. [Poster Session] Annual conference of the American Educational Research Association, San Francisco, CA <http://tinyurl.com/tqf6n3g> (Meeting cancelled because of Covid 19 pandemic).
- Cardozo-Gaibisso, L., Kim, S., Buxton, C.A, & Cohen, A.S. (2020, April). *Multidimensional score analysis: Exploring the complexity of bilingual science constructed response assessments through mixed methods*. [Poster Session] Annual conference of the American Educational Research Association, San Francisco, CA <http://tinyurl.com/tqf6n3g> (Meeting cancelled because of Covid 19 pandemic).
- Choi, H.J., Kim, S., Templin, J., & Cohen, A.S. (2020, April). *A supervised topic model for analyzing answers in constructed response tests*. Paper presented at the virtual annual meeting of the National Council on Measurement in Education, San Francisco, CA (Meeting virtual because of Covid 19 pandemic).
- Wheeler, J.M., & Cohen, A.S. (2020, April). *A comparison of latent semantic analysis and latent Dirichlet allocation*. Paper presented at the virtual annual meeting of the National Council on Measurement in Education, San Francisco, CA (Meeting virtual because of Covid 19 pandemic).
- Hong, M., & Cohen, A.S. (2020, April). *Impact of missing documents on latent Dirichlet allocation*. Paper presented at the virtual annual meeting of the National Council on Measurement in Education, San Francisco, CA (Meeting virtual because of Covid 19 pandemic).

- Lee, J., & Cohen, A.S. (2020, April). *Application of a Bayesian nonparametric IRT using a beta-mixture in addressing atypical ICCs*. Paper accepted for presentation at the annual meeting of the National Council on Measurement in Education, San Francisco, CA (Paper withdrawn because of Covid 19 pandemic).
- Lee, J., & Cohen, A.S. (2020, April). *A Dirichlet process mixture IRT model with response time for aberrant response behavior*. Paper accepted for presentation at the annual meeting of the National Council on Measurement in Education, San Francisco, CA (Paper withdrawn because of Covid 19 pandemic).
- Zheng, G., Mardones, C., Choi, H.-J., Hong, M., Copur-Gencturk, Y., & Cohen, A.S. (2020, April). *Mathematical equations and topic modeling: A comparison of two tokenization methods*. Poster accepted for presentation at the annual meeting of the American Educational Research Association, Graduate Student Gala, San Francisco, CA (Meeting cancelled because of Covid 19 pandemic).
- Mellom, P.J., Duong, E.V., Hixon, R., Weber, J., & Cohen, A.S. (2020, June). *Using corpus and discourse analysis to analyze the impact of a collaborative conversation-based pedagogy on English language learners' writing*. Paper accepted for presentation at the annual conference of Corpora & Discourse International, University of Sussex, UK. (Conference cancelled because of Covid 19 pandemic.)
- Zheng, G., Mardones, C., Hong, M., Copur-Gencturk, Y., Choi, H.-J., & Cohen, A.S. (2020, July). *Using latent Dirichlet allocation to analyze mathematics constructed-response data*. Paper presented at the International Meeting of the Psychometric Society, College Park, MD. (Meeting virtual because of Covid 19 pandemic.)
- Xiong, J., Wheeler, J., Lee, J., Choi, H.-J., & Cohen, A.S. (2020, July). *An empirical study of developing an automated scoring engine using supervised latent Dirichlet allocation*. Paper presented at the International Meeting of the Psychometric Society, College Park, MD. (Meeting virtual because of Covid 19 pandemic.)
- Wheeler, J.M., Cohen, A.S., Xiong, J., Lee, J., & Choi, H.-J. (2020, July). *A simulation guide for topic models of constructed-response items*. Paper presented at the International Meeting of the Psychometric Society, College Park, MD. (Meeting virtual because of Covid 19 pandemic.)
- Choi, H.-J., Bolinger, H., Copur-Gencturk, Y., & Cohen, A.S. (July, 2020). *Probabilistic topic modeling for identifying students' misconceptions or alternative concepts in mathematics*. Paper presented at the International Meeting of the Psychometric Society, College Park, MD, (Meeting virtual because of Covid 19 pandemic.)
- Hodges, G. L. W., Cohen, A.S., Lee, J., Flanagan, K.C., Eldridge, S.S., & Schneider, S.G. (April, 2021). *Using mixed methods to identify and test game design heuristics that support elementary science learning*. Paper presented at the Annual Conference of the American Educational Research Association, virtual conference.



- Zor, S., Cohen, A.S., Bottge, B.A., & Gassaway, L. (April, 2021). *Investigating latent class characteristics with covariates by using the mixture Rasch model*. Paper presented at the Annual Conference of the American Educational Research Association, virtual conference.
- Xiong, J., Cohen, A.S., & Xiong, X. (2021, April). *Bayesian estimation of ability in hybrid item response models on mixed-format items*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Mardones Segovia, C.A., Wheeler, J.M., Choi, H.-J., & Cohen, A.S. (2021, April). *Model selection for latent Dirichlet allocation with small numbers of topics*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Hong, M., Copur-Gencturk, Y., Choi, H.-J., & Cohen, A.S. (2021, April). *An application of topic modeling for investigating mathematics teachers' reasoning*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Raczynski, K., Choi, H.-J., Wheeler, J.M., Shermis, M., Lottridge, S., Cohen, Y., & Cohen, A.S. (2021, April). *Using artificial intelligence for constructed-response scoring: Some practical considerations*. Symposium presented at the 2021 Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Wheeler, J.M., Cohen, A.S., Choi, H.-J., Xiong, J., & Lee, J. (2021, April). *A semi-confirmatory latent Dirichlet allocation topic model*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Lee, J., Xiong, J., Wheeler, J.M., Choi, H.-J., & Cohen, A.S. (2021, April). *Application of a multidimensional mixture IRT model and a supervised LDA model for DIF in a mixed-format test*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Choi, H.-J., Lee, J., Kim, S., Listyg, B., Bowers, B., Cohen, A.S., Dolan, E., Ramirez-Lugo, J.S., & Johnsen, K. (2021, April). *Multigroup sLDA for characterizing college students' experience during COVID-19*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, virtual conference.
- Mardones-Segovia, C.A., Hong, M., Wheeler, J.M., Choi, H.-J., & Cohen, A.S. (2021, July). *Comparison of estimation algorithms for latent Dirichlet allocation*. Paper presented at the annual International Meeting of the Psychometric Society, virtual conference.
- Hong, M., Choi, H.-J., Mardones-Segovia, C.A., Copur-Gencturk, Y., & Cohen, A.S. (2021, July). *A two-step approach to topic modeling incorporating covariates and outcomes*. Paper presented at the annual International Meeting of the Psychometric Society, virtual conference.

Xiong, J., Xiong, X., & Cohen, A.S. (2021, July). *Process data analysis with the reservoir computing technique*. Paper presented at the annual International Meeting of the Psychometric Society, virtual conference.

Xiong, J., Wheeler, J.M., & Cohen, A.S. (2021, July). *Applications of machine learning in educational and psychological measurement*. Paper presented at the annual International Meeting of the Psychometric Society, virtual conference.

### Technical Reports

Cohen, A.S., Hettmansparger, T.P., & Mowrey, P.F. (1973). *Determining a sufficient sample size for analysis of mailed-questionnaire data (Technical Report No. 33)*. University Park, PA: The Pennsylvania State University, Center for Human Services Development.

Cohen, A.S., Sonnenschein, S., Peters, D.L. (1973). *Pennsylvania day care centers: A preliminary profile (Technical Report No. 20)*. University Park, PA: The Pennsylvania State University, Center for Human Services Development.

Knowles, K.B., Hornaday, J.M., & Cohen, A.S. (1973). *An analysis of federal day care legislation from 1934 to 1973 (Technical Report No. 28)*. University Park, PA: The Pennsylvania State University, Center for Human Services Development.

Schriber, P.E., & Cohen, A.S. (1973). *Management information systems: Application in day care assessment (Technical Report No. 29)*. University Park, PA: The Pennsylvania State University, Center for Human Services Development.

Cohen, A.S. (1979). *Bibliography of papers on latent trait assessment*. Evanston, IL: Midwest Regional Office, Educational Testing Service.

Cohen, A.S. (1980). *UW-System English Placement Test equating study: Forms A, C and D*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.

Cohen, A.S. (1982). *Catalogue of user services*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.

Cohen, A.S. (1982). *User's guide to test scoring services*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.

Cohen, A.S. (1982). *UW-System Mathematics Placement Test standard scores: Form 821*. Madison, WI : University of Wisconsin, Office of Testing & Evaluation Services. (There are 8 reports in this series, one for each of the following universities: UW-Center System; UW-Eau Claire; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Parkside, UW-Platteville; and UW-Stout.)

- Cohen, A.S. (1983). *Test scoring and reporting systems for minimum competency testing programs*. In M.J. Subkoviak (Ed.), *Final report: UW-System committee on competency-based testing*. Madison, WI: University of Wisconsin.
- Cohen, A.S. (1984). *UW-System Mathematics Placement tests standard scores: Form 83X*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services. (There are 11 reports in this series, one for each of the following universities: UW-Center System; UW-Eau Claire; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Platteville; UW-Parkside; UW-River Falls; UW-Stout; UW-Superior, UW-Whitewater.)
- Cohen, A.S. & Park, T.H. (1985). *Substitution of the EPT-Reading Comprehension Subtest for the CQT-Vocabulary Subtest*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S. (1986). *Equating report: Nelson-Denny Reading Test to the UW-Reading Comprehension Test*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., Kim, S.H., & Park, T.H. (1986). *Invariance of Rasch item difficulty parameters on the UW-System English and mathematics placement tests*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Park, T.H. (1986). *Equating study: UW-System English Placement Test Form 861: Reading Comprehension subtest*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Park, T.H. (1986). *Equating of the UW-Reading Comprehension Test to the College Qualification Tests: Vocabulary subtest*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Kim, S.-H. (1987). *Equating of the UW-Parkside Mathematics Placement Tests to the UW-System Mathematics Placement Tests: Advisor's report*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Kim, S.-H. (1987). *Equating of the UW-Parkside Mathematics Placement Tests to the UW-System Mathematics Placement Tests: Technical report*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Kim, S.-H. (1987). *UW-System Mathematics Placement Tests standard scores: Form 87X*. Madison, WI: University of Wisconsin, Office of Testing and Evaluation Services. (There are 12 reports in this series, one for each of the following universities: UW-Center System; UW-Eau Claire; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Platteville; UW-Parkside; UW-River Falls; UW-Stevens Point; UW-Stout; UW-Superior, UW-Whitewater.)

- Cohen, A.S., & Park, T.H. (1987). *Comparison of the UW-EPT Reading Comprehension Test and the Nelson-Denny Reading Test, Form E: Advisor's report*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Park, T.H. (1987). *Comparison of the UW-EPT Reading Comprehension Test and the Nelson-Denny Reading Test, Form E: Technical Report*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Lenahan, W.T., Cohen, A.S., Tortorice, C.E., & Park, T.H. (1987). *Report on the experimental writing sample*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Barmish, B.R., Cohen, A.S., & Baker, F.B. (1988). *Tractability of item selection by mathematical programming*. Madison, WI: University of Wisconsin, Department of Electrical and Computer Engineering.
- Cohen, A.S. (1988). *French Placement Test evaluation study: Six weeks' data, UW-Madison*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S. (1988). *German Placement Test evaluation study: Six weeks' data, UW-Madison*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S. (1988). *Spanish Placement Test evaluation study: Six weeks' data, UW-Madison*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S. (1988). *UW-System Placement Testing Program: Raw score to standard score conversion tables for French, German, and Spanish Placement Tests, Form 881*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., & Park, T.H. (1988). *Estimating foreign language cut-off raw scores on the UW-System Foreign Language Placement Tests for campuses with missing courses*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S., Park, T.H., & Franke, T.M. (1988). *UW-System Placement Testing Program: French Placement Test validation studies*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services. (There are 12 reports in this series, one for each of the following: UW-Eau Claire; UW-Green Bay; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Parkside; UW-Platteville; UW-River Falls; UW-Stevens Point; UW-Stout; UW-Whitewater; UWC-Waukesha.)
- Cohen, A.S., Park, T.H., & Franke, T.M. (1988). *UW-System Placement Testing Program: German Placement Test validation studies*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services. (There are 12 reports in this series, one for each of the following: UW-Eau Claire; UW-Green Bay; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Oshkosh; UW-Parkside; UW-Platteville; UW-River Falls; UW-Stevens Point; UW-Stout; UW-Whitewater; UWC-Wausau.)

- Cohen, A.S., Park, T.H., & Franke, T.M. (1988). *UW-System Placement Testing Program: Spanish Placement Test validation studies*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services. (There are 13 reports in this series, one for each of the following: UW-Eau Claire; UW-Green Bay; UW-La Crosse; UW-Madison; UW-Milwaukee; UW-Parkside; UW-Platteville; UW-River Falls; UW-Stevens Point; UW-Stout; UW-Whitewater; UWC-Waukesha.)
- Cohen, A.S. (1989). *Evaluation of the validity of the ACT-English Test for placement into introductory English courses at UW-Madison*. Madison, WI: University of Wisconsin, Office of Testing and Evaluation Services.
- Cohen, A.S. (1989). *Evaluation of the validity of the ACT-Mathematics Test for placement into introductory mathematics courses at UW-Madison*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
- Cohen, A.S. (1989). *UW-System English Placement Test: Form 89X raw score to standard score conversion tables*. Madison, WI: University of Wisconsin, Office of Testing & Evaluation Services.
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