

PUBLICATIONS James Algina

Books

- Legg S. M., & Algina, J. (Eds). (1990). Cognitive assessment of educational outcomes. Norwood, NJ: Ablex.
- Crocker, L. M., & Algina, J. (1986). Introduction to classical and modern test theory. New York: Holt, Rinehart, & Winston.

Book Chapters

- Algina, J. & Swaminathan H. (2011). Centering in two-level nested designs. In J. Hox & J. K. Roberts (Eds.), *The handbook of advanced multilevel analysis* (pp. 285-312). New York: Routledge
- Algina J. & Penfield, R. D. (2009). Classical test theory. In R. E. Millsap & A. Maydeu-Olivares (Eds.), *Handbook of quantitative methods in psychology*. Thousand Oaks, CA: Sage Publications
- Keselman, H. J., Algina, J., Boik, R. J., & Wilcox, R. R. (1999). New approaches to the analysis of repeated measurements. In B. Thompson (Ed.), *Advances in social science methodology*, (Vol. 5) (pp. 251-268). Greenwich, CT: Jai.
- Algina, J., & Coombs, W. T. (1996). A review of selected parametric solutions to the Behrens-Fisher problem. In B. Thompson (Ed.), *Advances in social science methodology*, (Vol. 4) (pp. 137-171). Greenwich, CT: Jai. **1559387726**
- Keselman, H. J., & Algina, J. (1996). The analysis of higher-order repeated measures designs. In B. Thompson (Ed.), *Advances in social science methodology*, (Vol. 4) (pp. 45-70). Greenwich, CT: Jai.
- Algina, J. (1989). Elements of classical reliability theory and generalizability theory. In B. Thompson (Ed.), *Advances in Social Science Methodology* (Vol. 1) (pp. 137-169). Greenwich, CT: Jai.
- Algina, J. & Legg, S. M. (1987). Technical issues. In L. M. Rudner (Ed.), *What's happening in teacher testing: An analysis of state teacher testing programs* (pp. 135-138). Washington, D. C.: Office of Educational Research and Improvement.
- Hambleton, R. K., Swaminathan, H., & Algina, J. (1976). Some contributions to the theory and practice of criterion-referenced testing. In D. N. M. de Gruijter, L. J. Th. van der Kamp, & A. F. Crombag (Eds.), *Perspectives in psychological and educational measurement*. New York: Wiley.

Encyclopedia Articles

Algina, J. & Swaminathan, H. (2015) Psychometrics: Classical Test Theor. In J. D. Wright (Ed.), *International Encyclopedia of social and Behavioral Sciences*.

Algina, J. & Keselman, H. J. (2010). Semi-Partial Correlation Coefficient (Part Correlation Coefficient). In N. J. Salkind, B. Frey, & D. M. Dougherty (Eds.), *Encyclopedia of Research Design*. Thousand Oaks, CA: Sage Publications. Oxford, GB: Elsevier Ltd.

Keselman, H. J. & Algina, J. (2010). Student's t Statistic. In N. J. Salkind, B. Frey, & D. M. Dougherty (Eds.), *Encyclopedia of Research Design*. Thousand Oaks, CA: Sage Publications.

Algina (2008). Behrens-Fisher Problem-Update and Extensions. In S. Kotz, C. B. Read, & D. L. Banks (Eds.), *Encyclopedia of Statistical Sciences Online*. (11 pages, internet). New York: John Wiley.

Algina, J. (1999). Behrens-Fisher Problem-Update and Extensions. In S. Kotz, C. B. Read, & D. L. Banks (Eds.), *Encyclopedia of Statistical Science*. New York: John Wiley.

Algina, J. (1998). The Aspin-Welch test. In Armitage, P., & Colton, T. (Eds.), *Encyclopedia of Biostatistics*, (Vol 1). (pp.201-202). London: John Wiley.

Algina, J. (1992). Reliability of Measurement. In M. C. Alkin (Ed.), *Encyclopedia of Educational Research* (pp. 1090-1093). New York: Macmillan.

Refereed Publications

Koo, N., Leite, W., & Algina, J. (in press). Mediated effects with the parallel process latent growth model: An evaluation of methods for testing mediation in the presence of non-normal data. *Structural Equation Modeling*

Conroy, M. A., Sutherland, K. S., Algina, J. J. Wilson, R. E., Martinez, J. R., & Whalon, K. J. (2015). Measuring teacher implementation of the Best in Class intervention program and corollary child outcomes. *Journal of Emotional and Behavioral Disorders*, 23 144–155.

McLaughlin, T. E, Snyder, P. A., & Algina, J. (2015). Characterizing early childhood disabilities in a nationally representative sample using functional profiles. *Exceptional Children*, 81, 471-488.

- Huggins, A.C., & Algina, J. (2015). The partial credit model and generalized partial credit model as constrained nominal response models, with application in *Mplus*. *Structural Equation Modeling*, 22, 308-318.
- Aydin, B., Leite, W., & Algina, J. (2014). The consequences of ignoring variability in measurement occasions within data collection waves in latent growth models. *Multivariate Behavioral Research*, 49, 149-160
- Peters, C. D., Kranzler, J. H., Algina, J., Smith, S. W., & Daunic, A. P. (2014) Understanding disproportionate representation in special education by examining group differences in behavior ratings. *Psychology in the Schools*, 51(5), 452-465.
- Shepperd, J. A., Miller, W. A., Smith, C. T., & Algina, J. (2014). Does religion offer worldviews that dissuade adolescent substance abuse? *Psychology of Religion and Spirituality*, 6, 292-301.
- Zhang, I., Jin, R., Leite, W., & Algina, J. (2014). Additive models for MTMM data with a multiplicative trait-method relationship: a simulation study. *Structural Equation Modeling*, 21, 68-80
- Henry, G., & Algina, J., & Kaya, Y. (2013) Use of the Color Trails Test as an Embedded measure of Performance Validity. *The Clinical Neuropsychologist*, 27, 864-876.
- Henry, G., Heilbronner, R., Algina, J., & Kaya, Y. (2013) Derivation of the MMPI-2-RF Henry-Heilbronner Index-r (HHI-r) Scale. *The Clinical Neuropsychologist*, 27, 509-513.
- Othman, A. R., Yin, T. S., Keselman, H. J., Wilcox, R. R., & Algina, J. (2012). Robust Modifications of the Levene and O'Brien Tests for Spread. *Journal of Modern Applied Statistical Methods*, 11, 54-68.
- Peters, C. D. Smith, S. W. Algina, J., & Daunic, A. P. (2012). Factorial validity of the behavior rating inventory of executive function (BRIEF) teacher form. *Child Neuropsychology*. 18, 168-181.
- VanDerHeyden, A., McLaughlin, T., Algina, J., & Snyder, P. (2012). Randomized evaluation of a supplemental grade-wide mathematics intervention. *American Educational Research Journal*, 49, 1251-1284..

- Oakland, T. D., & Algina, J. (2011). Adaptive behavior assessment system-II parent/primary caregiver form: Ages 0-5: Its factor structure and other implications for practice. *Journal of Applied School Psychology, 27*, 103-117.
- Zhang, G., & Algina, J. (2011). Coverage performance of the non-central F -based and percentile bootstrap confidence intervals for root mean square standardized effect size in one-way fixed-effects ANOVA. *Journal of Modern Applied Statistical Methods, 10* 77-96.
- Algina, J., & Keselman, H. J. (2010). Confidence Intervals for Squared Semipartial Correlation Coefficients: The Effect of Nonnormality. *Educational and Psychological Measurement, 70*, 926-940.
- Liu, F., Black, E.W., Algina, J, Cavanaugh, C., & Dawson, K. (2010). Involvement in virtual schooling: The validation of an instrument to measure parental involvement mechanisms. *Journal of Interactive Online Learning, 9*(2), 105-132
- Shi, Y., Leite, W., & Algina, J. (2010). The impact of omitting the interaction between cross classified factors in cross-classified random effects modeling. *British Journal of Mathematical and Statistical Psychology, 63*, 1-15.
- Algina, J., & Keselman, H. J. (2008). Population validity and cross validity: Applications of distribution theory for testing hypotheses, setting confidence intervals and determining sample size. *Educational and Psychological Measurement, 68*, 233-242.
- Algina, J., Keselman, H.J., & Penfield, R. D. (2008). Confidence intervals for the squared multiple semipartial correlation coefficient. *Journal of Modern Applied Statistical Methods, 7*, 2-19.
- Algina, J., Keselman, H.J., & Penfield, R. D. (2008). Note on a confidence interval for the squared semi-partial correlation coefficient. *Educational and Psychological Measurement, 68*, 734-741.
- Keselman, H.J., Algina, J., Lix, L., Wilcox, R. R, & Deering, K. (2008). A generally robust approach for testing hypotheses and setting confidence intervals for effect sizes. *Psychological Methods, 13*, 110-129.
- Keselman, H. J., Wilcox, R. R., Algina, J., Othman, A. R., & Fradette, K. (2008). A comparative study of robust tests of spread: Asymmetric trimming strategies. *British Journal of Mathematical and Statistical Psychology, 61*, 235-253.
- Rossen, E., Kranzler, J., & Algina, J. (2008). Confirmatory Factor Analysis of the Mayer-Salovey-Caruso Emotional Intelligence Test V2.0 (MSCEIT). *Personality and Individual Differences, 44*, 1258-1269.

- Wei, Y., Oakland, T. D., & Algina, J. (2008). Multigroup confirmatory factor analysis for the parent form, ages 5-21, of the Adaptive Behavior Assessment System-II. *American Journal on Mental Retardation*, *113*, 178-186.
- Algina, J., Keselman, H.J., & Penfield, R. D. (2007). Confidence intervals for an effect size measure in multiple linear regression. *Educational and Psychological Measurement*, *67*, 207-218.
- Keselman, H. J., Wilcox, R. R., Lix, L.M., Algina, J., & Fradette, K. (2007). Adaptive robust estimation and testing. *British Journal of Mathematical and Statistical Psychology*, *60*, 267-294.
- Padilla, M. A., & Algina, J. (2007). Type I Error Rates of the Kenward-Roger Adjusted Degree of Freedom *F*-test for a Split-Plot Design with Missing Values. *Journal of Modern Applied Statistical Methods*, *6*, 66-80.
- Wehry, S., & Algina, J. (2007) Analyses of unbalanced groups-versus-individual research designs using three alternative approximate degrees of freedom tests: test development and Type I error rates. *Journal of Modern Applied Statistical Methods*, *6*, 53 – 65
- Algina, J., Keselman, H.J., & Penfield, R. D. (2006). Confidence interval coverage for Cohen's effect size statistic. *Educational and Psychological Measurement*, *66*, 945-960.
- Algina, J., Keselman, H.J., & Penfield, R. D. (2006). Confidence intervals for an effect size when variances are not equal. *Journal of Modern Applied Statistical Methods*, *5*, 2-13.
- Kowalchuk, R., Keselman, H. J., Wilcox, R. Algina, J. (2006). Multiple Comparison Procedures, Trimmed Means, and Transformed Statistics, *Journal of Modern Applied Statistical Methods*, *5*, 43-64.
- Penfield, R., & Algina, J. (2006). A generalized dif effect variance estimator for measuring unsigned differential test functioning in mixed format tests. *Journal of Educational Measurement*, *43*. 295-312
- Misangi, V. F. LePine, J. A., Algina, J., & Goeddeke, F. (2006). The adequacy of repeated measures regression for multilevel research designs. *Organizational Research Methods*, *9*, 5-26.
- Werba, B. E., Eyberg, S. M. Boggs, S. R. & Algina, J. (2006). Predicting outcome in parent-child interaction therapy: success and attrition. *Behavior Modification*, *30*, 618-646.

- Algina, J., Keselman, H.J., & Penfield, R. D. (2005). An alternative to Cohen's standardized mean difference effect size: a robust parameter and confidence interval in the two independent groups case. *Psychological Methods*, **10**, 317-328.
- Algina, J., Keselman, H.J., & Penfield, R. D. (2005). Effect Sizes and Their Intervals: The Two-Groups Correlated Case. *Educational and Psychological Measurement*, **65**, 241-258.
- Keselman, H. J., Algina, J., & Fradette, K. (2005). Robust confidence intervals for effect size in the two-group case. *Journal of Modern Applied Statistical Methods*, **4**, 353-371.
- Algina, J., & Kesleman, H. J. (2004). Assessing treatment effects in randomized longitudinal two-group designs with missing observations. *Journal of Modern Applied Statistical Methods*, **3**, 271-287.
- Algina, J., & Kesleman, H. J. (2004). A comparison of methods for longitudinal analysis with missing data. *Journal of Modern Applied Statistical Methods*, **3** 13-26.
- Gill, M. G., Ashton, P., & Algina, J. (2004). Authoritative schools: A test of a model to resolve the school effectiveness debate. *Contemporary Educational Psychology*, **29**, 389-409.
- Gill, M. G., Ashton, P., & Algina, J. (2004). Changing preservice teachers' epistemological beliefs about teaching and learning in mathematics: An intervention study. *Contemporary Educational Psychology*, **29**, 164-185.
- Keselman, H. J., Wilcox, R. R., Algina, J., Fradette, K., and Othman, A. R. (2004). A power comparison of robust test statistics based on adaptive estimators. *Journal of Modern Applied Statistical Methods*, **3**, 27-3.
- King, T. Z., Fennell, E.B., Williams, L., Algina, J., Boggs, S., Crosson, B., & Leonard C. (2004). Verbal memory abilities of children with brain tumors. *Child Neuropsychology*, **10** (2), 76-88.
- Kowalchuk, R., Keselman, H. J., Algina, J., & Wolfinger, R. D. (2004). The analysis of repeated measurement with mixed-model adjusted *F* tests. *Educational and Psychological Measurement*, **64**, 224-242.
- Padilla, M. A., & Algina, J. (2004). Type I Error Rates for a One Factor Within-Subjects Design with Missing Values. *Journal of Modern Applied Statistical Methods*, **3**, 406-416
- Tekewe, C. D., Carter, R. K., Ma, C-X., Algina, J., Lucas, M. E., Roth, J., Ariet, M. Fisher, T., & Resnick, M. (2004). An empirical comparison of statistical models for value-added

- assessment of school performance. *Journal of Educational and Behavioral Statistics*, 29, 11-36.
- Algina, J., & Keselman, H. J. (2003). Approximate confidence intervals for effect sizes. *Educational and Psychological Measurement*, 63, 537-553.
- Algina, J., Keselman, H. J., & Othman, A. R. (2003). Analyzing group by time effects in longitudinal two-group randomized trial designs with missing data. *Journal of Modern Applied Statistical Methods*, 2, 50-72.
- Algina, J. & Olejnik, S. (2003). Conducting power analyses for ANOVA and ANCOVA in between-subjects designs. *Evaluation and the Health Professions*, 26, 288-314.
- Algina, J. & Olejnik, S. F. (2003). Sample size tables for correlation analysis with applications in partial correlation and multiple regression analysis. *Multivariate Behavioral Research*, 38, 309-324.
- Brestan, E. V., Eyberg, S. M., Algina, J. Johnson, S. B., Boggs, S. R. (2003). How annoying is it? Defining parental tolerance for child misbehavior. *Child & Family Behavior Therapy*, 25, 1-15
- Fradette, K., Keselman, H. J., Lix, L. Algina J., & Wilcox, R. (2003). Conventional and robust paired an independent-samples t tests: Type I error and power rates. *Journal of Modern Applied Statistical Methods*, 2, 481 - 496
- Kowalchuk, R., Keselman, H. J., & Algina, J. (2003). Repeated measures interaction test with aligned ranks. *Multivariate Behavioral Research*, 38, 433-462.
- Lix, L., Algina, J. & Keselman, H. J. (2003). Analyzing multivariate repeated measures designs: a comparison of two approximate degrees of freedom procedures. *Multivariate Behavioral Research* 38, 403-432.
- Olejnik, S. F. & Algina, J. (2003). Generalized eta and omega squared statistics: Measures of effect size for some common research designs. *Psychological Methods*, 8, 434-447.
- Penfield, R., & Algina, J. (2003). Applying the Liu-Agresti estimator of the cumulative odds ratio to DIF detection in polytomous items. *Journal of Educational Measurement*, 40, 353-370.
- Wehry, S. & Algina, J. (2003). Type I Error Rates of Four Methods for Analyzing Data Collected in a Groups-Versus-Individuals Design. *Journal of Modern Applied Statistical Methods*, 2, 400-413
- Algina, J., Moulder, B. C., & Moser, B. K. (2002). Sample size requirements for accurate estimation of squared semi-partial correlation coefficients. *Multivariate Behavioral Research*, 37, 37-57.

- Browndyke, J.N., Moser, D. J., Cohen, R. A., O'Brien, D. J., Algina, J., Haynes, W. G., Staples, E. D., Alexander, J., Davies, L. K., Bauer, R. M. (2002). Acute neuropsychological functioning following cardiosurgical interventions associated with the production of intraoperative cerebral microemboli. (2002). *Clinical Neuropsychologist* 16, 463-471.
- Keselman, H. J., Algina, J., & Kowalchuk, R. (2002). A comparison of data analysis strategies for testing omnibus effects in higher-order repeated measures designs. *Multivariate Behavioral Research*, 37, 331-357.
- Moulder, B. C., & Algina, J. (2002). Comparison of methods for estimating and testing latent variable interactions. *Structural Equation Modeling*, 9, 1-19.
- Algina, J., & Moulder, B., C. (2001). Sample sizes for confidence intervals on the increase in the squared multiple correlation coefficient. *Educational and Psychological Measurement*, 61, 633-649.
- Nthangeni, M., & Algina, J. (2001). Type I error rate and power of some alternative methods to the independent samples *t*-test. *Educational and Psychological Measurement*, 61, 937-957.
- Algina, J., & Moulder, B. C. (2001). A note on estimating the Joreskog-Yang model for latent variable interaction using LISREL 8.3. *Structural Equation Modeling*, 8, 40-52.
- Keselman, H. J., Algina, J., & Kowalchuk, R. (2001). The analysis of repeated measures designs: A review. *British Journal of Mathematical and Statistical Psychology*, 54, 1-20.
- Skeel, R. L. , Crosson, B., Nadeau, S. E., Algina, J., Bauer, R. L. , & Fennel, E. B. (2001). Basal ganglia dysfunction, working memory, and sentence comprehension in patients with Parkinson's disease. *Neuropsychologia*, 39, 962-971.
- Algina, J. & Keselman, H. J. (2000). Cross-validation sample sizes. *Applied Psychological Measurement*, 24, 173-180.
- Algina, J., & Olejnik, S. (2000). Determining sample size for accurate estimation of the squared multiple correlation coefficient. *Multivariate Behavioral Research*, 35, 119-136.
- Keselman, H. J., Algina, J., Wilcox, R. R., & Kowalchuk, R. (2000). Testing repeated measure hypotheses when covariance matrices are heterogeneous: Revisiting the robustness of the Welch-James test again. *Educational and Psychological Measurement*, 60, 925-938.

- Keselman, H. J., Kowalchuk, R. K., Algina, J., Lix, Lisa, M., & Wilcox, R. R. (2000). Testing treatment effects in repeated measures designs: trimmed means and bootstrapping. *British Journal of Mathematical and Statistical Psychology*, *53*, 175-191.
- Moser, D. J., Bauer, R. M., Gilmore, R. L., Dede, D. E., Fennell, E. B., Algina, J. J., Jakus, R., Roper, S. N., Zawacki, T. M., & Cohen, R. A. (2000). Electroencephalographic, volumetric, and neuropsychological indicators of seizure focus lateralization in temporal lobe epilepsy. *Archives of Neurology*, *57*, 707-712.
- Olejnik, S., & Algina, J. (2000). Measures of Effect Size for Comparative Studies: Applications, Interpretations, and Limitations. *Contemporary Educational Psychology*, *25*, 241-286
- Algina, J. (1999). A comparison of methods for constructing confidence intervals for the squared multiple correlation coefficient. *Multivariate Behavioral Research*, *34*, 493-504.
- Algina, J., & Keselman, H. J. (1999). Comparing squared multiple correlation coefficients: An examination of a confidence interval and a test of significance. *Psychological Methods*, *4*, 76-83.
- Keselman, H. J., Algina, J., Kowalchuk, R., and Wolfinger, R. (1999). A comparison of recent approaches to the analysis of repeated measures. *British Journal of Mathematical and Statistical Psychology*, *52*, 63-78.
- Keselman, H. J., Algina, J., Kowalchuk, R., and Wolfinger, R. (1999). The analysis of repeated measurements: A comparison of mixed-model Satterthwaite F tests and a nonpooled adjusted degrees of freedom multivariate test. *Communications in Statistics-Simulation and Computation*, *28*, 2967-2999.
- Walton, J. M., Johnson, S. B., Algina, J. (1999). Mother and child perceptions of child anxiety: Effects of race, health status, and stress. *Journal of Pediatric Psychology*, *24*, 29-39.
- Algina, J. (1998). Power calculation for multiple comparisons of two independent samples on p variables using PROC IML in SAS. *Educational and Psychological Measurement*, *58*, 307-312.
- Algina J., & Hombo, C. M. (1998). Power calculation for independent samples Hotelling's T^2 using PROC IML in SAS. *Educational and Psychological Measurement*, *58*, 154-157.
- Algina, J., and Keselman, H. J. (1998). A power comparison of the Welch-James and Improved General Approximation Tests in the split-plot design. *Journal of Educational and Behavioral Statistics*, *23*, 152-169.

- Keselman, H. J., Algina, J., Kowalchuk, R., and Wolfinger, R. (1998). A Comparison of two approaches for selecting covariance structures in the analysis of repeated measures. *Communications in Statistics-Simulation and Computation*, 27, 591-604.
- Schumann, E. M., Foote, R. C., Eyberg, S. M., Boggs, S. R., & Algina, J. (1998). Efficacy of parent-child interaction therapy: Interim report of a randomized trial with short-term-maintenance. *Journal of Clinical Child Psychology*, 27, 34-45.
- Algina, J. (1997). Generalizations of improved general approximation tests to split-plot designs with multiple between-subjects and/or multiple within-subjects factors. *British Journal of Mathematical and Statistical Psychology*, 50, 243-252.
- Algina, J., and Keselman, H. J. (1997). Detecting repeated measures effects with univariate and multivariate statistics. *Psychological Methods*, 2, 208-218.
- Algina, J., and Keselman, H. J. (1997). Testing repeated measures hypotheses when covariance matrices are heterogeneous: Revisiting the robustness of the Welch-James test. *Multivariate Behavioral Research*, 32, 255-274.
- Brestan, E., Eyberg, S. E., & Algina, J. (1997). Parent-child interaction therapy: Parents' perception of untreated siblings. *Child and Family Behavior Therapy*, 19, 13-28.
- Shapiro, D. E., Boggs, S. R., Rodrigue, J. R., Urry, H. L., Algina, J. J., Helman, R., & Ewan, F. (1997). Stage 2 breast cancers: Differences between four coping patterns and side effects during adjuvant chemotherapy. *Journal of Psychosomatic Research*, 43, 143-157.
- Berner, E. S., Jackson, J. R., Algina, J. (1996). Relationships among performance scores of four diagnostic decision support systems, *Journal of the American Medical Informatics Association*, 3, 208-215.
- Coombs, W. T., & Algina, J. (1996). New test statistics for MANOVA/descriptive discriminant analysis *Educational and Psychological Measurement*, 56, 382-402.
- Coombs, W. T., & Algina, J. (1996). On sample size requirements for Johansen's test. *Journal of Educational and Behavioral Statistics*, 21, 169-178.
- Coombs, W. T., Algina, J., & Oltman, D. (1996). Univariate and multivariate tests selected to control Type I error rates when variances are not necessarily equal. *Review of Educational Research*, 66, 137-179.
- Algina, J., Blair, R. C., & Coombs, W. T. (1995). A maximum tests for scale: Type I error rates and power. *Journal of Educational and Behavioral Statistics*, 20, 27-39.
- Algina, J., & Oshima, T. C. (1995). An improved general approximation test for the main effect in a split-plot design. *British Journal of Mathematical and Statistical Psychology*, 48, 149-160.

- Eyberg, S. M., Boggs, S. R., & Algina, J. (1995). Parent-child interaction therapy: A psychosocial model for the treatment of young children with conduct problems and their families. *Psychopharmacology Bulletin*, *31*, 83-91.
- Algina, J. (1994). Some alternative approximate tests for a split-plot design. *Multivariate Behavioral Research*, *29*, 365-384.
- Algina, J., & Oshima, T. C. (1994). Type I error rates for Huynh's General Approximation and Improved General Approximation tests. *British Journal of Mathematical and Statistical Psychology*, *47*, 151-166.
- Algina, J., Oshima, T. C., & Lin, W-Y. (1994). Type I error rates for Welch's test and James's second-order test under nonnormality and inequality of variance when there are two groups. *Journal of Educational and Behavioral Statistics*, *19*, 275-291.
- Berner, E. S., Webster, G. D., Sugerman, A.A., Jackson, J. R., Algina, J., et al. (1994). Performance of four computer-based diagnostic systems. *New England Journal of Medicine*, *330*, 1792-1796.
- Tang, K. L., & Algina J. (1993). Performance of four multivariate tests under variance-covariance heteroscedasticity. *Multivariate Behavioral Research*, *28*, 391-405.
- Oshima, T. C., & Algina, J. (1992). A SAS program for testing the hypothesis of equal means under heteroscedasticity: James's second-order test. *Educational and Psychological Measurement*, *52*, 117-118.
- Oshima, T. C., & Algina, J. (1992). Type I error rates for James's second-order test and Wilcox's H_m test under heteroscedasticity and non-normality. *British Journal of Mathematical and Statistical Psychology*, *45*, 255-263.
- Algina, J., Oshima, T. C., & Tang, L. K. (1991). Robustness of Yao's, James' and Johansen's tests under variance-covariance heteroscedasticity and nonnormality. *Journal of Educational Statistics*, *16*, 125-140.
- Algina, J., & Oshima, T. C. (1990). Robustness of the independent samples Hotelling's T^2 to variance-covariance heteroscedasticity when sample sizes are unequal and in small ratios. *Psychological Bulletin*, *108*, 308-313.
- Algina, J., Olejnik, S. F. & Ocanto, R. (1989). Type I error rates and power estimates for selected tests of variance. *Journal of Educational Statistics*, *14*, 373-384.

- Braden, J. P., & Algina, J. (1989). A method for determining the probability of special education placement. *Journal of School Psychology, 27*, 5-13.
- Olejnik, S. F., Algina, J., & Hern, K. (1989). Contrast analysis for scale differences. *Communications in Statistics - Theory and Methods, 18*, 2965-2988.
- Algina, J., & Tang, L. K. (1988). Type I error rates for Yao's and James' tests of equality of mean vectors under variance-covariance heteroscedasticity. *Journal of Educational Statistics, 13*, 81-290.
- Olejnik, S. F., & Algina, J. (1988). Tests of variance equality when distributions differ in form and location. *Educational and Psychological Measurement, 48*, 317-329.
- Olejnik, S. F., & Algina, J. (1987). Type I error rates and power estimates of selected parametric and nonparametric tests of scale. *Journal of Educational Statistics, 12*, 45-61.
- Olejnik, S. F., Algina, J., & Abdel-Fattah, A. A. (1987). An analysis of statistical power for parametric ANCOVA and rank transform ANCOVA. *Communications in Statistics, 16*, 1923-1950.
- Algina, J., & Olejnik, S. F. (1986). Corrected formulas for the K sample Siegal-Tukey and Klotz tests. *Journal of Experimental Education, 54*, 125-128.
- Belcher, M., Algina, J., & Crocker, L. (1985). Comparing self-report and desirability ratings in sex role assessment. *Educational and Psychological Research, 5*, 117-129.
- Olejnik, S. F., & Algina, J. (1985). A review of nonparametric alternatives to analysis of covariance. *Evaluation Review, 9*, 51-83.
- Olejnik, S. F., & Algina, J. (1985). Type I Error rate and power of rank transform ANOVA when populations are non-normal and have unequal variance, *Florida Journal of Educational Research, 27*, 61-82.
- Seaman, S. L., Algina, J., & Olejnik, S. F. (1985). Type I error probabilities and power of the rank and parametric ANCOVA procedures. *Journal of Educational Statistics, 10*, 345-367.
- Algina, J., & Olejnik, S. F. (1984). Implementing the Welch-James procedure with factorial designs. *Educational and Psychological Measurement, 44*, 39-48.
- Algina, J., & Seaman, S. L. (1984). A note on calculation of semipartial correlations. *Educational and Psychological Measurement, 44*, 547-549.

- Belcher, M., Crocker, L., & Algina, J. (1984). Can the same instrument be used to measure sex-role perceptions of males and females? *Measurement and Evaluation in Guidance, 17*, 15-23.
- Olejnik, S. F., & Algina, J. (1984). Type I errors and power for parametric ANCOVA and rank transform ANCOVA when the assumptions of conditional normality and homoscedasticity have been violated. *Journal of Educational Statistics, 9*, 129-149.
- Algina, J. (1982). Remarks on the analysis of covariance in repeated measures designs. *Multivariate Behavioral Research, 17*, 117-130.
- Algina, J., & Olejnik, S. F. (1982). Multiple group time-series design: An analysis of data. *Evaluation Review, 6*, 203-232.
- Algina, J. (1980). A note on identification in the oblique and orthogonal factor analysis models. *Psychometrika, 45*, 393-396.
- Algina, J., & Gross, L. J. (1979). Decision-making with basic medical sciences examinations: Single vs. multiple cut-off scores. *Evaluation and the Health Professions, 2*, 203-208.
- Algina, J., & Swaminathan, H. (1979). Alternatives to Simonton's analysis of the interrupted and multiple-group time-series designs. *Psychological Bulletin, 89*, 919-926.
- Lomax, R. G., & Algina, J. (1979). Comparison of two procedures for analyzing multitrait multimethod matrices. *Journal of Educational Measurement, 16*, 177-186.
- Algina, J. (1978). On the validity of examinations for making promotion decisions in medical education. *Medical Education, 12*, 82-87.
- Algina, J. (1978). Comment on Bartko 'On various intraclass correlation reliability coefficients.' *Psychological Bulletin, 85*, 135-138.
- Algina, J., & Noe, M. J. (1978). A study of Subkoviak's single administration estimate of the coefficient of agreement using two true score estimates. *Journal of Educational Measurement, 15*, 101-110.
- Hambleton, R. K., Swaminathan, H., Algina, J., Coulson, D. B. (1978). Criterion-referenced testing and measurement: A review of technical issues and developments. *Review of Educational Research, 48*, 1-47.
- Jain, R. B., Carlson, J. E., & Algina, J. (1978). A Fortran program for analyzing the interrupted time-series design. *Applied Psychological Measurement, 3*, 504.

Swaminathan, H., & Algina, J. (1978). Scale freeness in factor analysis. *Psychometrika*, *43*, 581-582.

Algina, J. (1977). Note on 'Internal reliability of MCQ tests: A modification of KR-20 to meet a special case.' *Medical Education*, *11*, 237-238.

Algina, J., & Swaminathan, H. (1977). A procedure for the analysis of time-series designs. *Journal of Experimental Education*, *45*, 56-61.

Swaminathan, H., & Algina, J. (1977). Analysis of quasi-experimental time-series designs. *Multivariate Behavioral Research*, *12*, 111-131.

Swaminathan, H., Hambleton, R. K., & Algina, J. (1975). A Bayesian decision-theoretic procedure for use with criterion-referenced tests. *Journal of Educational Measurement*, *12*, 87-97.

Swaminathan, H., Hambleton, R. K., & Algina, J. (1974). Reliability of criterion referenced tests. *Journal of Educational Measurement*, *11*, 263-267.

(f) Book Reviews

Algina, J. (1993). Review of Devore, J., & Peck, R. *Statistics: The exploration and analysis of data*. *Educational and Psychological Measurement*, *53*, 855-859.

Algina, J. (1989). Review of Wainer, H. (Ed) *Drawing Inferences from Self-Selected Samples*. *Journal of Educational Statistics*, *14*, 201-204.

Algina, J. (1982). Review of Birnbaum, I. *An introduction to causal analysis in Sociology*. *Sociology: Reviews of New Books*, *9*, 37.

Algina, J., & Crocker, L. (1981). Review of House, E. F. *Evaluating with validity*. *Sociology: Reviews of New Books*, *8*, 93.

Algina, J. (1980). Review of Kim, K. H., & Roush, F. W. *Mathematics for social scientists*. *Sociology: Reviews of New Books*, *7*, 118.

Algina, J., & Webb, R. (1979). Review of Solomon, D. & Kendall, A. J. *Children in classrooms*. *Sociology: Reviews of New Books*, *7*, 6-7.

Algina, J., & Swaminathan, H. (1975). Review of Frank, H. *Introduction to probability and statistics: Concepts and principles*. *Educational and Psychological Measurement*, *35*, 203-211.

PAPERS PRESENTED AT CONFERENCES

- Rong, J., & Algina, J. (April, 2013). Variables Influencing Factor Recovery in Exploratory Factor Analysis With Ordinal Data,. Presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Aydin, B., & Algina, J, (November, 2012). Methods to Detect Treatment Effect in Cluster Randomized Trials with Small Level-1 Sample Sizes. Presented at the 2012 Annual meeting of the Florida Educational Research Association, Gainesville, FL
- Snyder, P. Hemmeter, M. L., Sandall, S. Mclean, M. McLaughlin, T & Algina, J. (February, 2012). Impact of professional development on preschool teachers use of embedded-instruction practices. Presented at the Conference on Research Innovations in Early Intervention, San Diego , CA
- McLaughlin, T., Snyder, P. Algina, J. (2012). Functional ability profiles and young Children's social competence: exploring relationships in the Pre-elementary Education Longitudinal Study data set. Presented at the Conference on Research Innovations in Early Intervention, San Diego, CA.
- Hemmeter, M.L., Snyder, P. Fox, L., & Algina, J. (May, 2011) Professional development related to the teaching pyramid model for addressing the social emotional development and challenging behaviors of young children. Paper presented at the 2011 International Society on Early Intervention Conference, New York, NY.
- Aydin, B., Leite, W., & Algina, J. (April, 2011). Comparison of latent growth models with different time coding strategies in the presence of inter-individually varying time points of measurement. Presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Koo, N., Leite, W. L., & Algina, J. (April, 2011). Impact of ignoring time series processes in error atructure in growth mixture modeling. Presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Marshik, T. T., Ashton, P. T., Algina, J. (April, 2011). Teachers' and students' psychological need satisfaction as predictors of students' academic achievement. Presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.
- Zhang, L., Jin, & Leite, W. L., & Algina J. (April, 2011). Additive models for multitrait-multimethod data assuming a multiplicative trait-method relationship: A simulation study. Presented at the Annual Meeting of the American Educational Research Association, New Orleans, LA.

- Aydin, B., Leite, W., & Algina, J. (November, 2010). Comparison of latent growth models with different time coding strategies in the presence of inter-individually varying time points of measurement. Presented at the Annual Meeting of the Florida Educational Research Association, Orlando, FL.
- Zhang, L. Jin. R. Leite, W. L., & Algina, J. (November, 2010). Additive models for multitrait-multimethod data assuming a multiplicative trait-method relationship: A simulation study. Presented at the Annual Meeting of the Florida Educational Research Association, Orlando, FL.
- Cordell-Mcnulty, K, Ashton, P. T., & Algina, J. (May, 2010). Predictors of college success and retention in a bio-ecological framework. Annual Meeting of American Educational Research Association, Denver, CO.
- Liu, F., Black, E.W., & Algina, J. (May, 2010), Parental involvement in virtual schooling: Using confirmatory factor analysis and exploratory factor analysis for instrument validation. Annual Meeting of American Educational Research Association, Denver, CO.
- Peters, C. D., Kranzler, J. K., Algina, J., Smith, S. W., & Daunic, A. P. (March, 2010). Disproportionality of minority students identified with EBD. Presented at the National Association of School Psychologists, Chicago, IL.
- McLaughlin, T., Algina, J., & Snyder, P. (February, 2010). Using hierarchical multivariate linear modeling with the pre-elementary longitudinal study data: Preliminary analysis of social skills and problem behavior ratings. Presented at the Conference on Research Innovations in Early Intervention, San Diego, CA.
- Behnke, M., Eyler, F.D. Duckworth Warner, T., Leite, W.L. & Algina, J. (May, 2009). Precursors of delinquency and drug use in youth with prenatal cocaine. Presented at the Pediatric Academic Society , Baltimore, MD.
- Liu, F., Black, E.W., & Algina, J. (November, 2009). Involvement in virtual schooling: the validation of an instrument to measure parental involvement mechanisms using confirmatory factor analysis. Presented at the Annual Conference of American Evaluation Association , Orlando, FL.
- Marshik, T., Ashton, P. T., & Algina, J. (2008). Predictors of self-control and GPA in college students. Presented at the Annual Meeting of the American Psychological Association, New York.
- Zhang, G., Algina, J, & Padilla, M.. (2008). Performance of confidence intervals for root mean square standardized effect size in one-way fixed-effects ANOVA. Presented at the Annual Meeting of the American Educational Research Association, New York.

- Brownell, M., Algina, J., & Blair, M. (2007). Improving our understanding of contextual influences in special education research. Presented at the IES Research Conference, Washington, DC.
- Shi, Y., Leite, W., & Algina, J. (2007). The impact of omitting the interaction between cross classified factors in CCREM. Presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.
- Gill, M. G. & Algina, J. (2006). Promoting conceptual change in preservice teachers' mathematics beliefs via text-based instruction: affective and cognitive factors. Presented at the American Educational Research Association, San Francisco.
- Padilla, M., & Algina, J. (2006). Kenward-Roger Type I error rates in a between-by-within subjects split-plot design with missing values. Presented at the American Educational Research Association, San Francisco, CA.
- Jordan, C.B., Belar, C.D., & Algina, J. (2005). Predictors of negative affect in female infertility clinic patients. Poster presented at the Sixth Annual Women's Health Research Day, Center for Women's Health Research: Chapel Hill, NC, March 2005.
- Fradette, K.H., Keselman, H.J., Wilcox, R. R., Lix, L. M., Algina, J. (2005). Adaptive Robust Estimation and Testing. Paper presented at the annual meeting of the American Educational Research Association, San Diego.
- Kowalchuk, R. K., Keselman, H. J., Wilcox, R. R., & Algina, J. (2005). Multiple Comparison Procedures, Trimmed Means and Transformed Statistics. Paper presented at the annual meeting of the American Educational Research Association, San Diego.
- Padilla, M. A., & Algina, J. (2004). Type I Error Rates for a One Factor Within-Subjects Design with Missing Values. Paper presented at the annual meeting of the American Educational Research Association, San Diego.
- Grande, L. Bauer, R, Crosson, B. Dede, D., Algina, J., & Heilman, K. (2003) Attentional inhibition for spatial location in Parkinson's disease. Paper presented at the annual meeting of the Cognitive Science Association for Interdisciplinary Learning, Hood River, Oregon.
- Lix, L. M., Algina, J., & Keselman, H. J. (2003, June). A comparison of procedures for the analysis of multivariate longitudinal data. Paper presented at the bi-annual meeting of the Canadian Society for Epidemiology and Biostatistics, Halifax, NS.

- Jordan, C., Algina, J., & Belar, C.D. (October 2002). *Predictors of negative affect in female infertility clinic patients*. Paper presented at Dartmouth-Hitchcock Medical Center, Division of Reproductive Endocrinology and Infertility.
- Gregoire, M., Ashton, P., & Algina, J. (2001). The Role of Prior and Perceived Ability in Influencing the Relationship of Goal Orientation to Cognitive Engagement and Academic Achievement: An Explanatory Model. Paper presented at the annual meeting of the American Educational Research Association, Seattle.
- Algina, J., & Moulder, B. M. (2000). An Empirical Comparison of Methods for Estimating Latent Variable Interaction. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Gregoire, M., & Algina, J. (2000). The relationship between school climate and middle school students academic achievement and engagement in learning: A multilevel analysis. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Olejnik, S., & Algina, J. (2000). Measures of Effect Size for Comparative Studies: Applications, Interpretations, and Limitations. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Brestan, E. V., Eyberg, S. M., Algina, J., Johnson, S. B., Boggs, S. R., & Johnson, J.H. (1998). How annoying is it? Defining parental tolerance for child misbehavior. Poster presented at the annual meeting of the American Psychological Association, San Francisco.
- Lix, L. M., Keselman, H. J., & Algina, J. (1997). Trimmed means in split-plot repeated measurement designs. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Oltman, D. O., Coombs, W. T., & Algina, J. (1996). A comparison of Type I error rates and power levels of selected multivariate analysis of variance procedures. Paper presented at the annual meeting of the American Statistical Association.
- Seraphine, A. E., & Algina, J. (1996). Centering latent ability distributions: A power study of the Stout T procedure. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Algina, J. (1995). A review of approximate tests for analyzing data in the unbalanced split-plot design. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

- Seraphine, A. E., Algina, J., & Miller, M. D. (1995). Three procedures for the assessment of unidimensionality: A power study. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Coombs, W. T., & Algina, J. (1994). A rule of thumb for using the Johansen test. Paper presented at the annual meeting of the Psychometric Society, Champaign, IL.
- Algina, J., Oshima, T. C., & Lin, W-Y. (1993). Type I error rates for Welch's test and James's second-order test under nonnormality and inequality of variance when there are two groups. Paper presented at the annual meeting of the American Educational Research Association, Atlanta.
- Oshima, T. C. & Algina, J. (1992). Type I error rates for James's second-order test and Wilcox's Hm test under heteroscedasticity and non-normality. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Coombs, W. T., & Algina, J. (1992). Four new solutions to the multivariate G-sample Behrens-Fisher problem. Paper presented at the annual meeting of the Psychometric Society, Columbus, OH.
- Tang, K. L. & Algina J. (1991). Performance of four univariate tests under variance-covariance heteroscedasticity. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Algina, J., & Oshima, T. C. (1990). The robustness of Yao's, James', and Johansen's tests under variance-covariance heteroscedasticity and nonnormality. Paper presented at the annual meeting of the American Educational Research Association, Boston.
- Algina, J. & Oshima, T. C. (1989). Robustness of independent samples Hotelling's T^2 to variance-covariance heteroscedasticity when sample sizes are unequal and in small ratios. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Olejnik, S. F., & Algina, J. (1988). Contrast analysis for scale differences. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Olejnik, S. F., & Algina, J. (1987). Bootstrap estimation and testing for variance equality. Paper presented at the annual meeting of the American Educational Research Association, Washington, D. C.
- Buhr, D., & Algina, J. (1986). A comparison of item parameter estimates and ability parameter estimates obtained by different methods implemented by BILOG. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

- Olejnik, S. F., & Algina, J. (1986). Tests of variance equality when distributions differ in form, shape, and location. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Olejnik, S. F., & Algina, J. (1985). Type I error rate and power of the rank transform ANOVA when populations are non-normal and have unusual variances. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Olejnik, S. F., & Algina, J. (1985). Power analysis of selected parametric and nonparametric tests for heterogeneous variances in non-normal distributions. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Olejnik, S. F., & Algina, J. (1984). A review of nonparametric alternatives to parametric analysis of covariance. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Olejnik, S. F., Algina, J., & Abdel-Fattah, A. (1984). An analysis of statistical power curves for parametric ANCOVA and rank transform ANCOVA. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Seaman, S. L., Algina, J., & Olejnik, S. F. (1984). Robustness and power of the rank transform and parametric ANCOVA procedures. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Larrivee, B., & Algina, J. (1983). Identification of teaching behaviors which predict success for mainstreamed students. Paper presented at the annual meeting of the American Educational Research Association, Montreal.
- Olejnik, S. F., & Algina, J. (1983). Parametric ANCOVA vs. rank transform ANCOVA when the assumptions of conditional normality and homoscedasticity are violated. Paper presented at the annual meeting of the American Educational Research Association, Montreal.
- Algina, J., & Olejnik, S. F. (1982). Analysis of data obtained in a multiple group time series design. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Algina, J., & Lomax, R. G. (1979). A comparison of two procedures for analyzing multitrait multimethod matrices. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

- Algina, J., & Swaminathan, H. (1979). Application of growth curve methodology to the analysis of interrupted time series designs. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Bond, L., & Algina, J. (1979). On the use of two common measures of importance in linear causal models. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Swaminathan, H., & Algina, J. (1979). Issues in the analysis of time series designs. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Gross, L., & Algina, J. (1978). Single versus multiple cut-off scores for decision-making in basic medical sciences examinations. Paper presented at the annual meeting of the American Educational Research Association, Toronto.
- Noe, M. J., & Algina, J. (1977). An investigation of a single administration estimate of a criterion-referenced reliability index. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Coulson, D. B., Swaminathan, H., & Algina, J. (1977). Inferring treatment effects in quasi-experimental time-series designs. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Swaminathan, H., & Algina, J. (1976). Multivariate procedures for the analysis of quasi-experimental time-series designs. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Swaminathan, H., & Algina, J. (1976). Scale invariance in factor analysis. Paper presented at the annual meeting of the Psychometric Society, Murray Hill, New Jersey.
- Swaminathan, H., & Algina, J. (1976). An oblique factor model for the analysis of change. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.
- Algina, J. (1975). A review of selected psychometric issues pertaining to criterion-referenced testing and measurement. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.
- Algina, J., & Swaminathan, H. (1975). Statistical procedures for the analysis of quasi-experimental time-series designs. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

Algina, J., & Swaminathan, H. (1974). A generalized factor model for the analysis of change. Paper presented at the annual meeting of the American Psychological Association, New Orleans.

Swaminathan, H., Hambleton, R. K., & Algina, J. (1974). Reliability of criterion-referenced tests. Paper presented at the annual meeting of the American Psychological Association, New Orleans.

Swaminathan, H., Hambleton, R. K., & Algina, J. (1973). A decision theoretic approach to issues in criterion-referenced tests. Paper presented at the annual meeting of the Northeastern Educational Research Association, Ellenville, New York.