

VITA

David Kaplan

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Current Research Interests

- Continuous and categorical latent variable models
- Statistical modeling of longitudinal data
- Stochastic models for social processes
- Statistical applications to large scale national and international surveys, education policy analysis, and human development
- Statistical Modeling of Major League Baseball data

Education

- Ph.D. (Education), UCLA, 1987
- M.A. (Education), UCLA, 1983
- B.A. (Psychology, cum laude), California State University, Northridge, 1978

Positions and Employment

- 1998-present Professor, School of Education, University of Delaware.
- 1992-1998 Associate Professor, School of Education, University of Delaware.
- 1987-1992 Assistant Professor, School of Education, University of Delaware.

Fellowships and Honors

- 2006 AERA Publications Committee Award for Outstanding Reviewing, *Journal of Educational and Behavioral Statistics*
- 2006 Distinguished Faculty Award, School of Education, University of Delaware
- 2004 AERA Publications Committee Award for Outstanding Reviewing, *Journal of Educational and Behavioral Statistics*
- 2003 AERA Publications Committee Award for Outstanding Reviewing, *Journal of Educational and Behavioral Statistics*
- 2001-2002 Jeanne Griffith Fellow, National Center for Education Statistics, Washington, DC.

Visiting Professorships

- Hebrew University of Jerusalem; January, 1997; January, 1998; January, 1999
- University of Milano-Bicocca; January, 2001

Grants

1. Kaplan, D. National Science Foundation (# REC-0404914). Developing Statistical Models for the Diffusion of Educational Policies and Interventions. 2004-2006. Amount: \$100,351.
2. Jordan, N. & Kaplan, D. National Institute of Child Health and Human Development. A developmental study of mathematics disabilities (Competitive renewal). 2003-2008. Amount: \$1,687,000.
3. Jordan, N. & Kaplan, D. National Institute of Child Health and Human Development. A developmental study of mathematics disabilities. 1999-2002. Amount: \$449,216
4. Kaplan, D. The Spencer Foundation. Developing longitudinal statistical models for education policy. 1998-2001. Amount: \$125,000.
5. Archbald, D., Kaplan, D., & Nakib, Y. U. S. Department of Education, OERI National Institute on Educational Governance, Finance, Policy-Making and Management (OERI # R308F60010). A National Study of the Effects of School Choice on Achievement and Opportunity. 1996-1998. Amount: \$419,926.
6. Kaplan, D. National Science Foundation (# REC-9550472). Model-based indicator systems for informing science education policy. 1995-1997. Amount: \$168,516.
7. Venezky, R. L. & Kaplan, D. U.S. Department of Education, OERI National Center on Adult Literacy. Project title: Studies of adult literacy skills and assessment. 1994-1995. Amount: \$260,000.
8. Kaplan, D. University of Delaware International Programs and Special Sessions International Travel Grant. Project Title: Modeling School Effectiveness in Israeli Schools. 1995. Amount: \$2,200.
9. Kaplan, D. American Educational Research Association (NSF # RED-9255347). Project title: Quantitative approaches to educational policy analysis utilizing multilevel structural equation modeling. 1993-1994. Amount: \$15,000.
10. Kaplan, D. U.S. Department of Education, OERI National Center on Adult Literacy. Project title: Models of literacy and literacy related behaviors. 1991-1992. Amount: \$53,242.

11. Kaplan, D. University of Delaware General University Research Grant. Project title: Specification error issues in multiple populations. 1988-1989. Amount: \$5,000

Books

1. Kaplan, D. (Ed.) (2004). *The Sage Handbook of Quantitative Methodology in the Social Sciences*. Newbury Park, CA: Sage Publications.
2. Kaplan, D. (2000) *Structural Equation Modeling: Foundations and Extensions*. Newbury Park, CA: Sage Publications.

Peer Reviewed Publications

1. Jordan, N. C., Kaplan, D., Nabors-Oláh, L., Locuniak, M. N. (2006). Number sense growth in kindergarten: A longitudinal investigation of children at risk for mathematics difficulties. *Child Development, 77*, 153-175. [[PDF](#)]
2. Kaplan, D & Walpole, S. (2005). A stage-sequential model of reading transitions: Evidence from the Early Childhood Longitudinal Study. *Journal of Educational Psychology, 97*, 551-563. [[PDF](#)]
3. Kaplan, D. (2005) Finite Mixture Dynamic Regression Modeling of Panel Data with Implications for Dynamic Response Analysis. *Journal of Educational and Behavioral Statistics, 30*, 169-187. [[PDF](#)]
4. Archbald, D. A. & Kaplan, D. (2004). Parent choice versus attendance area assignment to schools: Does magnet-based school choice affect NAEP scores? *International Journal of Educational Policy, Research & Practice, 5*, 3-35.
5. Jordan, N. C., Hanich, L. B., & Kaplan, D. (2003) Arithmetic Fact Mastery in Young Children: A Longitudinal Investigation. *Journal of Experimental Child Psychology, 85*, 103-119. [[PDF](#)]
6. Jordan, N. C., Hanich, L. B., & Kaplan, D. (2003) A longitudinal study of mathematical competencies in children with specific mathematics difficulties versus children with co-morbid mathematics and reading difficulties. *Child Development, 74*, 834-850. [[PDF](#)]
7. Kaplan, D. (2002) Methodological advances in the analysis of individual growth with relevance to education policy. *Peabody Journal of Education, 77*, 189-215. [[PDF](#)]

8. Jordan, N. C., Kaplan, D., & Hanich, L. B. (2002) Achievement growth in children with learning difficulties in mathematics: Findings of a two-year longitudinal study. *Journal of Educational Psychology, 94*, 586-597. [\[PDF\]](#)
9. Kaplan, D. (2002). Modeling Sustained Educational Change With Panel Data: The Case for Dynamic Multiplier Analysis. *Journal of Educational and Behavioral Statistics, 27*, 85-103.
10. Hanich, L. B., Jordan, N. C., Kaplan, D., & Dick, J. (2001). Performance across different areas of mathematical cognition in children with learning difficulties. *Journal of Educational Psychology, 93*, 615-626. [\[PDF\]](#)
11. Kaplan, D., & Kreisman, M. B. (2000). On the validation of indicators of mathematics education using TIMSS: An application of multilevel covariance structure modeling. *International Journal of Educational Policy, Research, and Practice, 1*, 217-242. [\[PDF\]](#)
12. Kaplan, D. (1999). An extension of the propensity score adjustment method for the analysis of group differences in MIMIC models. *Multivariate Behavioral Research, 34*, 467-492.
13. Kaplan, D. & Ferguson, A. J. (1999). On the utilization of sample weights in latent variable models. *Structural Equation Modeling, 6*, 305-321.
14. Kaplan, D., & George, R. (1998). Evaluating latent variable growth models through ex post simulation. *Journal of Educational and Behavioral Statistics, 23*, 216-235. [\[PDF\]](#)
15. George, R., & Kaplan, D. (1998). A structural model of parent and teacher influences on the science attitudes of eighth graders: Evidence from NELS:88. *Science Education, 82*, 93-109.
16. Kaplan, D. & Elliott, P. R. (1997). A model-based approach to validating education indicators using multilevel structural equation modeling. *Journal of Educational and Behavioral Statistics, 22*, 323-348. [\[PDF\]](#)
17. Kaplan, D., & Elliott, P. R. (1997). A didactic example of multilevel structural equation modeling applicable to the study of organizations. *Structural Equation Modeling: A Multidisciplinary Journal, 4*, 1-24.
18. Kaplan, D. (1995). The impact of BIB-spiralling induced missing data patterns on goodness-of-fit tests in factor analysis. *Journal of Educational and Behavioral Statistics, 20*, 69-82. [\[PDF\]](#)

19. Kaplan, D., & George, R. (1995). A study of the power associated with testing factor mean differences under violations of factorial invariance. *Structural Equation Modeling: A Multidisciplinary Journal*, 2, 101-118.
20. Kaplan, D., & Venezky, R. L. (1994). Literacy and voting behavior: A bivariate probit model with sample selection. *Social Science Research*, 23, 350-367. [\[PDF\]](#)
21. Kaplan, D. (1994). Estimator conditioning diagnostics for covariance structure models. *Sociological Methods and Research*, 23, 200-229.
22. Kaplan, D., & Wenger, R. N. (1993). Asymptotic independence and separability in covariance structure models: Implications for specification error, power, and model modification. *Multivariate Behavioral Research*, 28, 483-498.
23. Fromme, K., Stroot, E., & Kaplan, D. (1993). The comprehensive effects of alcohol: Development and psychometric assessment of a new expectancy questionnaire. *Psychological Assessment: A Journal of Consulting and Clinical Psychology*, 5, 19-26.
24. Muthén, B., & Kaplan, D. (1992). A comparison of some methodologies for the factor analysis of non-normal Likert variables: A note on the size of the model. *British Journal of Mathematical and Statistical Psychology*, 45, 19-30.
25. Kaplan, D. (1991). The behaviour of three weighted least squares estimators for structured means analysis with non-normal Likert variables. *British Journal of Mathematical and Statistical Psychology*, 44, 333-346.
26. Kaplan, D. (1991). On the modification and predictive validity of covariance structure models. *Quality and Quantity*, 25, 307-314.
27. Kaplan, D. (1990). Evaluation and modification of covariance structure models: A review and recommendation. *Multivariate Behavioral Research*, 25, 137-155.
28. Kaplan, D. (1990). Rejoinder on evaluating and modifying covariance structure models. *Multivariate Behavioral Research*, 25, 197-204
29. Kaplan, D. (1990). Contributions to structural modeling of mathematics achievement: Application of categorical variable structural equation methodology. *International Journal of Educational Research*, 14, 175-192.
30. Lapan, R. T., McGrath, E., & Kaplan, D. (1990). Factor structure of the Basic Interest Scales by gender across time. *Journal of Counseling Psychology*, 37, 216-222.
31. Kaplan, D. (1989). Model modification in covariance structure analysis: Application of the expected parameter change statistic. *Multivariate Behavioral Research*, 24, 285-305.

32. Kaplan, D. (1989). Power of the likelihood ratio test in multiple group confirmatory factor analysis under partial measurement invariance. *Educational and Psychological Measurement, 49*, 579-586.
33. Kaplan, D. (1989). The problem of error rate inflation in covariance structure models. *Educational and Psychological Measurement, 49*, 333-337.
34. Kaplan, D. (1989). A study of the sampling variability and z-values of parameter estimates from misspecified structural equation models. *Multivariate Behavioral Research, 24*, 41-57.
35. Kaplan, D. (1988). The impact of specification error on the estimation, testing, and improvement of structural equation models. *Multivariate Behavioral Research, 23*, 69-86.
36. Muthén, B., Kaplan, D., & Hollis, M. (1987). On structural equation modeling with data that are not missing completely at random. *Psychometrika, 51*, 431-462.
37. Muthén, B., & Kaplan, D. (1985). A comparison of some methodologies for the factor analysis of non-normal Likert variables. *British Journal of Mathematical and Statistical Psychology, 38*, 171-189.

Book Chapters, Annual Volumes, Conference Proceedings

1. Kaplan, D. & Uribe-Zarain, X. (2005). Time is of the essence: An overview of quantitative methodologies for the study of change. In T. Trabasso, J. Sabatini, D. W. Massaro, & R. C. Calfee (Eds.), *From Orthography to Pedagogy: Essays in Honor of Richard L. Venezky*, (pp. 265-288). Mahwah, NJ: Lawrence Erlbaum Associates.
2. Kaplan, D. (2005). Identification. In B. S. Everitt & D. C. Howell (eds). *Encyclopedia of Statistic in Behavioral Science* (pp. 892-896). Chichester, John Wiley and Sons.
3. Kaplan, D. (2004). On exogeneity. In D. Kaplan (Ed.). *The Sage Handbook of Quantitative Methodology in the Social Sciences* (pp 407-421). Newbury Park, CA: Sage Publications.
4. Kaplan, D. (2003). Structural Equation Modeling. In N. J. Smelser & P. B. Baltes (eds). *International Encyclopedia of the Social and Behavioral Sciences*. Oxford: Elsevier Science.
5. Kaplan, D. (2003). Covariance. In M. Lewis-Beck, A. E. Bryman, & Tim Futing Liao (eds). *The SAGE Encyclopedia of Social Science Research Methods*. Newbury Park, CA: Sage Publications.

6. Kaplan, D. (2003). Structural Equation Modeling. In M. Lewis-Beck, A. E. Bryman, & Tim Futing Liao (eds). *The SAGE Encyclopedia of Social Science Research Methods*. Newbury Park, CA: Sage Publications.
7. Kaplan, D. (2003). Structural Coefficient. In M. Lewis-Beck, A. E. Bryman, & Tim Futing Liao (eds). *The SAGE Encyclopedia of Social Science Research Methods*. Newbury Park, CA: Sage Publications.
8. Kaplan, D., Harik, P., & Hotchkiss, L. (2000). Cross-sectional Estimation of Dynamic Structural Equation Models in Disequilibrium. In *Structural Equation Modeling Present and Future: A Festschrift in honor of Karl G. Joreskog*. (pp. 315-339). Lincolnwood, IL: Scientific Software International. [\[PDF\]](#)
9. Venezky, R. L., & Kaplan, D. (1998). Literacy habits and political participation. In M. Cecil Smith (ed.), *Literacy for the 21st Century*. Westport, CN: Greenwood Publishing Group.
10. Kaplan, D. (1998). Methods for multilevel data analysis. In G. A. Marcoulides (ed.), *Modern Methods for Business Research*. Mahwah, NJ: Lawrence Erlbaum and Associates.
11. Kaplan, D. (1996). An overview of concepts and issues in multilevel structural equation modeling. In H. Ernste (ed.), *Multilevel Analysis with Structural Equation Models*. (pp. 1-18). Zurich, Switzerland: Department of Geography, Swiss Federal Institute of Technology (ETH).
12. Kaplan, D. (1995). Statistical power in structural equation modeling. In R. H. Hoyle (ed.), *Structural Equation Modeling: Concepts, Issues, and Applications* (pp. 100-117). Newbury Park, CA: Sage Publications, Inc.
13. Kaplan, D. & Wenger, R. N. (1993). Asymptotic independence and separability in covariance structure models. In R. Steyer, K. Wender, & K. Widaman (Eds.), *Psychometric Methodology: Proceedings of the 7th European Meeting of the Psychometric Society in Trier* (pp. 203-208). Stuttgart and New York: Gustav Fischer Verlag.
14. Kaplan, D. (1992). Structural equation modeling. In M. C. Alkin (ed.), *Encyclopedia of Educational Research 6th edition*. New York: Macmillan.
15. Glutting, J. J. & Kaplan, D. (1990). Stanford-Binet Intelligence Scale: Fourth Edition: Making the case for reasonable interpretations. In C. R. Reynolds & R. W. Kamphaus

(Eds.), *Handbook of Psychological and Educational Assessment of Children: Volume 1. Intelligence and Achievement.* (pp. 277-295). New York: The Guilford Press.

Book Reviews

1. Kaplan, D. (1994). [Review of Structural Equation Modeling with EQS and EQS/Windows: Basic Concepts, Applications, and Programming]. *Applied Psychological Measurement.*, 18, 191-192.
2. Kaplan, D. (1993). [Review of Testing Structural Equation Models]. *Structural Equation Modeling*, 1, 98-99.
3. Kaplan, D. (1990). [Review of Multivariate Statistics: A Practical Approach]. *Journal of Educational Statistics*, 15, 171-174.

Technical Reports, Working Papers, Policy Briefs

1. Kaplan, D. (2000). Secondary statistical modeling with the National Assessment of Adult Literacy: Implications for the Design of the Background Questionnaire. NCES Working Paper No. 2000-05. Washington, DC: National Center for Education Statistics.
2. Kaplan, D. & Venezky, R. L. (1995). Literacy and voting behavior: A statistical analysis based on the 1985 Young Adult Literacy Survey. NCAL Technical Report TR94-14. Philadelphia: National Center on Adult Literacy.
3. Kaplan, D., & Elliott, P. R. (1994). A Multilevel Structural Model of Science Achievement From an Indicator System Perspective: Implications for Educational Policy Analysis. Final Report to the AERA Grants Program Committee
4. Kaplan, D. & Venezky, R. L. (1993). What can employers assume about the literacy skills of GED graduates? NCAL Technical Report TR93-5. Philadelphia: National Center on Adult Literacy.
5. Kaplan, D. (1992). The Analysis of Adult Literacy Survey Data: Problems in Factor Analysis with BIB-Spiralled Item Administration. NCAL Occasional Paper OP92-2. Philadelphia: National Center on Adult Literacy.

Conference Presentations

1. Kaplan, D. (2006). Discussant for AERA symposium: Methodological developments in international educational research. Experiences from the OECD PISA study. San Francisco, CA.
2. Kaplan D. (2005). A multilevel mixture event history approach to modeling the diffusion of innovations in educational settings. National Science Foundation Principal Investigators Annual Meeting. December 8-9, Arlington, VA.
3. Kaplan, D. (2005). Combining mixture event history models with social network structure as a framework for modeling the diffusion of innovations. Paper presented at the 2005 annual meeting of the Society for Multivariate Experimental Psychology, October 5 - 8, Lake Tahoe, CA.
4. Kaplan, D. (2004). Finite mixture dynamic regression analysis with implications for dynamic multiplier analysis. Paper presented at the 2004 annual meeting of the American Educational Research Association, San Diego, CA.
5. Kaplan, D. (2004). An Application of Latent Transition Analysis to the Development of Reading Competencies in Young Children: Evidence from ECLS-K. Paper presented at the 2004 annual meeting of the American Educational Research Association, San Diego, CA.
6. Kaplan, D. (2003). Finite mixture dynamic regression analysis with implications for dynamic multiplier analysis.. Paper presented at the 2003 annual meeting of the Society for Multivariate Experimental Psychology, September 18-20, Keystone, Colorado.
7. Kaplan, D. (2003). Methodological Advances in the Analysis of Individual Growth with Relevance to Education Policy. Paper presented at the 2003 annual meeting of the American Educational Research Association. Chicago, IL.
8. Kaplan, D. (2003). Strong exogeneity and Granger Non-Causality in Linear Statistical Models. Paper presented at the 2003 annual meeting of the American Educational Research Association. Chicago, IL.
9. Kaplan, D. (2003). ICT Skills, Practices, and Attitudes in the US. Paper presented at the 2003 annual meeting of the American Educational Research Association. Chicago, IL.
10. Kaplan, D. (2002). Extensions of Linear Dynamic Multiplier Analysis to Multivariate Regression and Multilevel Modeling. Paper presented at the 2002 annual meeting of the Society for Multivariate Experimental Psychology, October 17-19, Charlottesville, VA.

11. Kaplan, D. (2002). Modeling Sustained Educational Change With Panel Data: The Case for Dynamic Multiplier Analysis. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, Louisiana.
12. Kaplan, D. & Kreisman, M. B. (2001). An Application of Multilevel Covariance Structure Modeling of Relevance to Education Policy. Paper presented at the annual meeting of the American Educational Research Association. Seattle, Washington.
13. Kaplan, D. (2000). Cross-sectional Estimation of Dynamic Structural Equation Models in Disequilibrium. Presented to the International Symposium on Structural Equation Modeling. St. Charles, Illinois.
14. Kaplan, D. (2000). Stability and Equilibrium in Structural Equation Models. Presented to the International Conference on Measurement and Multivariate Analysis. Banff, Alberta, Canada.
15. Kaplan, D. (2000). Exogeneity in Linear Statistical Models. Paper presented at the 2000 annual meeting of the American Educational Research Association. New Orleans, Louisiana.
16. Kaplan, D. (2000). Exogeneity in Structural Equation Models. Paper presented at the 2000 annual meeting of the American Educational Research Association. New Orleans, Louisiana.
17. Kaplan, D. (2000). Secondary Statistical Modeling with the NAAL: Implications for the Design of the Background Questionnaire. Symposium paper presented at the 2000 annual meeting of the American Educational Research Association. New Orleans, Louisiana.
18. Kaplan, D. (1999). Dynamic multipliers in single level and multilevel models. Paper presented at the annual meeting of the American Educational Research Association. Montreal, Canada.
19. Kaplan, D. (1999). Statistical models applied to national data sets for informing education policy. Symposium paper presented at the annual meeting of the American Educational Research Association. Montreal, Canada
20. Kaplan, D. (1999). Discussant for AERA paper session. Topics in Structural Equation Modeling. Montreal, Canada
21. Kaplan, D. (1998). On the assumptions associated with the application of the propensity score adjustment method to latent variable models. Paper presented the annual meeting of the American Educational Research Association. San Diego, CA.

22. Kaplan, D. & Ferguson, A. J. (1998). On the utilization of sampling weights in latent variable models. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
23. Kaplan, D. (1998). Discussant for AERA symposium. Modeling Non-Normal Data. San Diego, CA.
24. Kaplan, D. (1996). Evaluating latent variable models using ex post simulation. Paper presented at the North American Meeting of the Psychometric Society, Banff, Alberta, Canada.
25. Kaplan, D. (1996). On the extension of the propensity score adjustment method to covariance structure modeling. Paper presented at the annual meeting of the American Educational Research Association. New York, New York.
26. Kaplan, D. (1996). Discussant for AERA paper session. Latent Trait Model Fit. New York, New York.
27. Kaplan, D., Zuzovsky, R., & Tamir, P. (1996). Parental involvement as perceived by Israeli pupils and their parents: A comparison of urban and kibbutz families. Symposium paper presented at the annual meeting of the American Educational Research Association. New York, New York.
28. Kaplan, D. (1995). Literacy and voting behavior: A bivariate probit model with sample selection. Symposium paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
29. Kaplan, D. & Elliott, P. R. (1995). Centering problems in multilevel covariance structure modeling. Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
30. Kaplan, D., & Elliott, P. R. (1995). Validating science education indicators through quantitative policy modeling: Evidence from NELS:88. Paper presented at the annual meeting of the American Educational Research Association. San Francisco, CA.
31. Kaplan, D., & Elliott, P. R. (1994). A policy guidance system for science achievement: An application of multilevel structural equation modeling. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, Louisiana.
32. Kaplan, D., & Elliott, P. R. (1994). On the utility of multilevel structural equation modeling for building an educational policy guidance system. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, Louisiana.

33. Kaplan, D. (1994). Discussant for AERA paper session: Theoretical developments and educational applications of covariance structure analysis. New Orleans, Louisiana.
34. Kaplan, D., & Wenger, R. N. (1993). Asymptotic independence and separability in covariance structure models: Implications for specification error, power, and model modification. Paper presented at the meeting of the American Educational Research Association. Atlanta, Georgia.
35. Kaplan, D. (1992). Colinearity diagnostics for covariance structure models. Presented at the meeting of the Psychometric Society. Columbus, OH.
36. Kaplan, D. (1992). Assessing the factor structure of data arising from balanced incomplete block spiralling designs. Presented at the meeting of the American Educational Research Association. San Francisco, CA.
37. Kaplan, D. (1992). Colinearity diagnostics for covariance structure models. Presented at the meeting of the American Educational Research Association. San Francisco, CA.
38. Kaplan, D., & Wenger, R. N. (1991). Asymptotic independence and separability in covariance structure models. Presented at the European meeting of the Psychometric Society. Trier, Germany.
39. Kaplan, D., & Wenger, R. N. (1991). Asymptotic independence and separability in covariance structure models. Presented at the joint meeting of the Classification Society and Psychometric Society. New Brunswick, NJ.
40. Kaplan, D. (1991). A Monte Carlo study of three weighted least squares estimators for structured means analysis with non-normal Likert variables. Presented at the meeting of the American Educational Research Association. Chicago, IL
41. Kaplan, D. (1991). A study of the power associated with testing factor mean differences under violations of factorial invariance. Presented at the meeting of the American Educational Research Association. Chicago, IL.
42. Kaplan, D. (1990). The behavior of three weighted least squares estimators for structured means analysis with non-normal Likert variables. Presented at the meeting of the Psychometric Society. Princeton, NJ.
43. Kaplan, D. (1990). A multistage method for studying mean structures in multiple group higher order confirmatory factor analysis. Presented at the meeting of the American Educational Research Association. Boston, MA.

44. Kaplan, D. (1990). Alternative fit indices in covariance structure modeling: Just say whoa! Presented at the meeting of the American Educational Research Association. Boston, MA.
45. Kaplan, D. (1990). Discussant for AERA/NCME symposium: The assessment of test anxiety: Applications of covariance modeling to issues of construct validation. Boston, MA
46. Kaplan, D. (1989). Power of the likelihood ratio test in multiple group confirmatory factor analysis under partial measurement invariance. Presented at the 6th European meeting of the Psychometric Society. Leuven, Belgium.
47. Kaplan, D. (1989). On the modification and selection of competing covariance structure models. Presented at the meeting of the American Educational Research Association. San Francisco, CA.
48. Kaplan, D. (1989). On the utility of classical statistical theory for building and evaluating covariance structure models. Presented at the meeting of the American Educational Research Association. San Francisco, CA.
49. Kaplan, D. (1988). On specification error problems in covariance structure models. Presented at the meeting of the Psychometric Society. Los Angeles, CA.
50. Kaplan, D. (1988). Modification of structural equation models: Application of the expected parameter change statistic. Presented at the meeting of the American Educational Research Association. New Orleans, LA.
51. Kaplan, D. (1988). A Monte Carlo study of the sampling variability and z-values of parameter estimates for misspecified structural equation models. Presented at the meeting of the American Educational Research Association. New Orleans, LA.
52. Kaplan, D. (1987). The impact of specification error on the estimation, testing, and improvement of structural equation models. Presented at the meeting of the American Educational Research Association. Washington, D.C.
53. Muthén, B., & Kaplan, D. (1985). On comparing item characteristic curve parameters across groups. Presented at the meeting of the American Educational Research Association. Chicago, IL.
54. Muthén, B., Kaplan, D., & Hollis, M. (1985). Latent variable modeling with missing data: Attrition in longitudinal studies. Presented at the meeting of the American Educational Research Association. Chicago, IL.

55. Muthén, B., & Kaplan, D. (1984). A comparison of some methodologies for the factor analysis of non-normal Likert variables. Presented at the meeting of the American Educational Research Association. New Orleans, LA.

Invited Addresses and Workshops

1. Kaplan, D. & Sweetman, H. M. (2005). Finite mixture modeling approaches to the study of academic growth: Beyond a “one-size-fits-all” perspective. Presented at the MARCES Conference on Longitudinal Modeling of Student Achievement. University of Maryland, College Park, MD.
2. Kaplan, D. (2005). A review and extension of quantitative models for the diffusion of innovations with relevance to educational systems. Presented to the Department of Educational Psychology, University of Wisconsin - Madison
3. Kaplan, D. (2005). Reviewing and extending statistical models of diffusion with relevance to educational innovations. Presented to the Learning Sciences Brown Bag Series, School of Education and Social Policy, Northwestern University.
4. Kaplan, D. (2005). Invited Workshop on Latent Variable Modeling. Presented to the School of Education and Social Policy, Northwestern University.
5. Kaplan, D. (2005). Two studies of dynamic modeling with finite mixtures. Invited colloquium, Educational Testing Service, Princeton, NJ.
6. Kaplan, D. (2002). Co-Instructor for the AERA Institute on Statistical Analysis for Education Policy. New Orleans, Louisiana.
7. Kaplan, D. (2002). In-school versus out-of-school ICT learning: Preliminary findings for the United States. First International Dissemination Conference for the OECD/CERI ICT Programme. Vanderbilt University, Nashville, TN.
8. Kaplan, D. (2001). Multilevel Covariance Structure Modeling. Invited address to the Center for the Advancement of Research Methods and Analysis (CARMA). School of Business, Virginia Commonwealth University, Richmond, Virginia.
9. Kaplan, D. (2001). Invited panel participant for Spencer Foundation sponsored session entitled "Getting Grants". Presented at the annual meeting of the American Education Research Association. Seattle, Washington.
10. Kaplan, D. (2001). Invited panel participant for AERA sponsored session entitled "Putting Your Talents to Work: Launching Your Career". Presented at the annual meeting of the American Education Research Association. Seattle, Washington.

11. Kaplan, D. (2001). Invited Workshop on Hierarchical Linear Modeling. Presented to the Faculty of Economics, University of Milano-Bicocca, Milan, Italy.
12. Kaplan, D. (2000). Merging the propensity score with Joreskog's work on MIMIC and multiple group modeling: An approach to modeling selection bias. Paper presented at the conference entitled, "Factor Analysis and Structural Equation Modeling: Perspectives and Visions. An International Symposium Honoring the Research of Karl G. Joreskog", Uppsala, Sweden.
13. Kaplan, D. (1999). Secondary statistical modeling with the National Assessment of Adult Literacy: Implications for the design of the background questionnaire. Discussion Papers Briefing, Washington, DC.
14. Kaplan, D. (1999). Invited Workshop on Hierarchical Linear Modeling. Presented to the School of Education, The Hebrew University of Jerusalem, Mount Scopus, Jerusalem, Israel.
15. Kaplan, D. (1999). A Multilevel Model of the Effects of School Choice on Academic Achievement. Presented to the School of Education, Hebrew University of Jerusalem, Israel.
16. Kaplan, D. (1998). Invited Workshop on Structural Equation Modeling. Presented to the School of Education, The Hebrew University of Jerusalem, Mount Scopus, Jerusalem, Israel.
17. Kaplan, D. (1998). Elements of univariate and multivariate growth curve modeling. Presented to the School of Education, Hebrew University of Jerusalem, Israel, and the School of Education, Tel-Aviv University, Israel.
18. Kaplan, D. (1998). On the extension of the propensity score adjustment method for the analysis of group differences in latent variable models. Presented at the 1998 meeting of the Israeli Sociological Association, Haifa, Israel.
19. Kaplan, D. (1997). On the use of latent variable growth modeling for monitoring change in multiple achievement domains. Department of Psychology, College of William and Mary, Williamsburg, VA.
20. Kaplan, D. (1997). Invited Workshop on Structural Equation Modeling. Presented to the Faculty of Social Sciences, The Hebrew University of Jerusalem, Mount Scopus, Jerusalem, Israel.

21. Kaplan, D. (1997). Structural Equation Modeling. Invited AERA Graduate Student Seminar Roundtable. Annual meeting of the American Educational Research Association. Chicago, IL.
22. Kaplan, D. (1997). Statistical modeling of hierarchy, structure, and temporality in complex organizations: An example from education. Presented to the Faculty of Social Sciences, The Hebrew University of Jerusalem, Mount Scopus, Jerusalem, Israel.
23. Kaplan, D. (1995). Modeling science education indicators: An application of multilevel structural equation modeling. Presented to the Delaware Chapter of the American Statistical Association. Newark, DE.
24. Kaplan, D. (1995). Recent developments and future directions in structural equation modeling. Presented to the Department of Statistics, Tel Aviv University, Tel Aviv, Israel.
25. Kaplan, D. (1995). Modeling and validating science education indicators. Presented to the School of Education, Tel Aviv University, Tel-Aviv, Israel.
26. Kaplan, D. (1995). Invited participant in Conference on Analytic Uses of Longitudinal Databases. Washington, DC.
27. Kaplan, D. (1994). The utility of multilevel structural equation modeling for organizational policy studies: The case of education. Presented to the RMD Conference on Causal Modeling. Purdue University.
28. Kaplan, D. (1990). Covariance structure modeling. Presented to the Delaware Chapter of the American Statistical Association. Newark, Delaware.

Major League Baseball Research Papers and Presentations

1. Kaplan, D. (in preparation). A variance decomposition of offensive baseball performance.
2. Kaplan, D. (in preparation). Is there evidence for an “aberrant” increase in home runs?
3. Kaplan, D. (2005). Is there an “I” in team? A variance decomposition of offensive baseball performance. Paper presented at the 35th annual meeting for the Society for American Baseball Research. Toronto, Canada.

Selected Consulting/Policy Advising Activities

- 2005 Participant, Coalition for National Science Funding. Attended meetings with Delaware Congressional Delegation.
- 2005 – Present Member, Technical Advisory Group, OECD/Programme on International Student Assessment.
- 2004- Present Member, Questionnaire Expert Group, OECD/Programme on International Student Assessment (PISA) 2006.
- 2004-Present Senior Statistical Consultant, NSF funded Mathematics and Science Partnership Program Grant (awarded to WESTAT).
- 2002 Consultant, US Department of Education. Comprehensive School Reform Research Studies.
- 2001-2002 Member, Technical Working Group, US Department of Education. Evaluation of the Reading Excellence Act.
- 2001 Panel member, US Department of Education (OERI). Government Performance and Results Act.
- 2001 Consultant/Statistician. Young Citizenship - Swedish Democracy in a Comparative Perspective.
- 1999-2003 Consultant/Statistician, OECD-CERI, Quasi-Experimental Studies of Student Learning.
- 1998-1999 Consultant, US Department of Education (NCES). Development of the background questionnaire for the National Assessment of Adult Literacy

Professional Societies

- American Educational Research Association
- American Statistical Association
- Biometric Society (ENAR)
- Institute of Mathematical Statistics
- Psychometric Society
- Society for American Baseball Research
- Society for Multivariate Experimental Psychology (Elected)
- Society for Prevention Science

Professional Service

Service to Professional Organizations:

- 2006-2007 Member and Chair-Designate AERA Research Advisory Committee
- 2000-2001 Member, AERA Division D Nominating Committee
- 1994 Program Chair, AERA Division D, Section 3a

Current Service on Editorial Boards:

- Management Committee, *Journal of Educational and Behavioral Statistics*;
- Associate Editor, *Journal of Educational and Behavioral Statistics*;
- Editorial Board, *Multivariate Behavioral Research*;
- Editorial Board, *Structural Equation Modeling*
- Editorial Board, *Educational Evaluation and Policy Analysis*

Past Service on Editorial/Advisory Boards: *Educational and Psychological Measurement*; *Journal of Educational Research*; *Encyclopedia of Social Science Research Methods* (Sage Publications); *Science Education*

Occasional Reviewer: *American Educational Research Journal*; *Behaviormetrika*; *British Journal of Mathematical and Statistical Psychology*; *Child Development*; *Computational Statistics and Data Analysis*; *Educational Evaluation and Policy Analysis*; *Journal of Educational Measurement*; *Journal of Educational Research*; *Journal of Special Education*; *Journal of Studies on Alcohol*; *Measurement and Evaluation in Counseling and Development*; *Multivariate Behavioral Research*; *Organizational Research Methods*; *Psychological Bulletin*; *Psychometrika*; *Science Education*; *Sociology of Education*; *Structural Equation Modeling*; *AERA Division D*; *APA Division 5*.

Grant Reviewer:

- U.S. Dept. of Education (OERI, IES, NCES)
- National Institutes of Health (NICHD, NIMH, NIGMS)
- National Science Foundation (Education Directorate)
- The Spencer Foundation
- Research Grants Council (Hong Kong)

Past and Present Service to the University:

- Member, University Graduate Studies Committee.

Past and Present Service to the College:

- Member, Research Advisory Committee and Program Council, University of Delaware Early Learning Center;
- Member, College Counsel.

Past and Present Service to the School of Education:

- Chair, Promotion and Tenure Committee;
- Chair School of Education Executive Committee;
- Chair Committee on Graduate Studies in Education;
- Member, Committee on Undergraduate Studies in Education;
- Coordinator, Research Methodology and Evaluation PhD Specialization (rotating)

Supervised Dissertations

Sweetman, H. M. (2006). Categorical latent variable modeling approaches to the study of neighborhood advantage, social capital, and their relationship to academic outcomes in the early elementary school years.

Brown, L. M. (2004). A growth curve modeling approach to the study of pacing in a licensure examination.

Folske, J. C. (2003). On the performance of full-information maximum likelihood estimation assuming missingness at random for general growth mixture models: A Monte Carlo study.

Kreisman, M. B. (2001). Evaluating academic outcomes of Head Start an application of general growth mixture modeling.

Molock, J. W. (2001). Modeling selection bias in multilevel linear models.

Ferguson, A. J. (1999). Utilizing structural equation modeling for education policy analysis: an instruments-targets and goal programming approach.

George, R. (1997). Multivariate latent variable growth modeling of attitudes toward science: An analysis of the Longitudinal Study of American Youth.

Elliott, P. R. (1996). A multilevel model of mathematics achievement: Its use for validation of education indicators.