

Vita
Stephen W. Raudenbush

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University of Chicago
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EDUCATION

Harvard University	1984
Ed.D. in Policy Analysis and Evaluation Research. Concentration in statistics and research design.	
Harvard University	1979-1980
Ed.M. in Administration, Planning and Social Policy.	
Harvard University	1964-1968
B.A. in Social Studies, an interdisciplinary major, with a concentration on social theory concerning the problems of industrial societies.	

AWARDS AND ACADEMIC HONORS

Fellow, American Academy of Arts and Sciences	2001-present
Senior Fellow, Michigan Society of Fellows	2001-present
Selected as Fellow, Center for Advanced Study in the Behavioral Sciences	2000-present
Member, National Academy of Education	1998-present
Co-recipient of the 2004 Palmer O. Johnson Award (American Educational Research Association)	2004
Harvard Graduate School of Education's Alumni Council Award for Outstanding Contribution to Education	2004
Angoff Memorial Lecture, Educational Testing Service (ETS)	2004
Cliff Clogg Memorial Lecture, Pennsylvania State University, Departments of Sociology and Statistics	2003
Co-recipient of the 2000 Robert Park Award (American Sociological Association Community and Urban Sociology Section)	2000
Raymond B. Cattell Early Career Award of the American Educational Research Association (AERA)	1993
William J. Davis Award of AERA	1993
George Z.F. Bereday Outstanding Scholarship Award of the Comparative and International Education Society	1992
Michigan State University's Teacher-Scholar Award	1991
State of Michigan Teaching Excellence Award	1990
Master Lecturer Award, Michigan Psychological Association	1990
Doctoral qualifying paper passed With Distinction	1982
Lehmann Scholarship, awarded each year to the outstanding scholar in each of Harvard's professional schools	1980
B.A. awarded <i>Magna Cum Laude</i>	1968

PROFESSIONAL EXPERIENCE

University of Chicago	
Lewis-Sebring Distinguished Service Professor	
Department of Sociology and Chair, Committee on Education	2005-present
University of Michigan	
Professor, School of Education	1998-2005
Professor, (by courtesy) Department of Sociology	2002-2005
Professor, (by courtesy) Department of Statistics	2000-2005
Research Professor, Survey Research Center, Institute for Social Research	1998-2005
Michigan State University	1993-1997
Professor, Research Design and Statistics, Department of Counseling, Educational Psychology and Special Education.	
Michigan State University	1988-1992
Associate Professor, Research Design and Statistics, Department of Counseling, Educational Psychology and Special Education.	
Harvard University	1991-1992
Visiting Associate Professor, Department of Maternal and Child Health, Harvard School of Public Health	
Scientific Director for Analysis, Project on Human Development in Chicago Neighborhoods	1990-present
Michigan State University	1984-1988
Assistant Professor in Research Design and Statistics in the College of Education, Department of Counseling, Educational Psychology and Special Education.	
University of Edinburgh	1987-present
Associate Member, Centre for Educational Sociology	
Visiting Senior Researcher, 1987- 1989	
Harvard University	1984
Instructor in Methods of Inquiry.	
Huron Institute	1981-1983
Research Associate	
Massachusetts Institute of Technology	1976- 1980
Sponsored Research Staff	
Treatment Alternatives To Street Crime	1974
Developed educational and employment opportunities for participants in a career development program for rehabilitated drug addicted or drug dependent offenders.	
Dorchester Neighborhood Employment Center	1972- 1974
Employment placement interviewer.	
U.S. Army	1969-1970
Honorably discharged as Specialist Fifth Class.	

PROFESSIONAL SERVICE

National Committees:

Environmental & Biological Variation and Language Growth, University of Chicago	2003-present
Advisory Committee, Center for Education, National Academy of Science	2002-present
Program Advisory Committee, Inter-university Consortium on Political and Social Research	1994-present
Member, Independent Review Panel for National Evaluation of Title I	2002-2005
Member, Governing Board of the National Science Foundation/American Educational Research Association Grants Program	2000-2004
Member, Advisory Council on Education Statistics	2002
Co-chair, Committee on Humanities Indicators, American Academy Of Arts and Sciences	2002
Member, Committee on Integrating the Science of Early Childhood Development, National Academy of Science	1998-2001
Program Advisory Committee on Research Conference Grants of The Spencer Foundation	1998-2001
Member, Committee on Assessment for Title I, National Academy of Science	1997-1999
Visiting Panel for Research, Educational Testing Service	1995-1998
Member, Human Development and Aging Study Section, National Institute of Health	1994-1998
Program Advisory Committee of the Spencer Foundation Human Development and Aging Study Section, National Institute of Health	1994-1998
Chair, Management Committee, <u>Journal of Educational and Behavioral Statistics</u>	1993-1998
Technical Review Panel, Early Childhood Longitudinal Study of the National Center for Educational Statistics	1994-1996
Statistical Advisory Board, National Head Start Transition Project	1994-1996
Statistical Consultant to Aguirre International Research on its six-year longitudinal study of bilingual education, funded by the U.S. Office of Education.	1989-1991

Editorial Boards:

Associate Editor, <u>Measurement: Interdisciplinary Research and Perspectives</u>	2003-present
Associate Editor, <u>American Educational Research Journal</u>	2000-present
Coordinating Editor, <u>American Journal of Sociology</u>	2000-present
Associate Editor, <u>Annual Review of Sociology of Education</u>	2000-present
Associate Editor, <u>Sociology of Education</u>	1999-present
Associate Editor, <u>Journal of Educational and Behavioral Statistics</u>	1989-present
Associate Editor, <u>Educational Evaluation and Policy Analysis</u>	1997-present
Associate Editor, <u>American Journal of Education</u>	1996-present
Associate Editor, <u>Journal of Educational Measurement</u>	1995-present

Editorial Boards: (cont.):

Editorial Board, <u>Psychological Bulletin</u>	1993-1995
Associate Editor, <u>New Directions in Program Evaluation</u>	1991-1994
Associate Editor, <u>Evaluation Review</u>	1987-1992
Editorial Advisory Board Member, <u>Education Measurement.</u>	1986-1990

Other Service:

Referee for the following publications/organizations: 1985-present

American Educational Research Journal, American Journal of Education, American Journal of Sociology, American Sociological Review, American Statistician, Anthropology in Education Quarterly, Cambridge University Press, Comparative Education Review, Curriculum Review, Economic and Social Research Council, Great Britain, Educational Researcher, Evaluation Review, International Journal of Educational Research, Journal of Clinical and Consulting Psychology, Journal of Educational and Behavioral Statistics, Journal of Educational Psychology, Journal of Family Psychology, Journal of Marriage and the Family, Journal of Research on Crime and Delinquency, Journal of The American Statistical Association, Journal of The Royal Statistical Society, National Institutes of Health, National Science Foundation, Springer/Verlog Publishing, Office of Educational Research and Improvement, US Department of Education, Personality and Social Psychology Bulletin, Prentice-Hall Publishing Co., Psychological Bulletin, Psychological Methods, Psychometrika, School Effectiveness and School Improvement, SIAM Journal on Matrix Analysis, Sociology of Education, Statistical Science

Member of the following organizations:

American Statistical Association	1982-present
American Educational Research Association	1985-present
American Society of Criminology	1992-present
Comparative and International Education Society	1987-1992
National Council on Measurement in Education	1985-1994

GRANTS

Principal Investigator, “Building Capacity for Evaluating Group-Level Interventions” sponsored by the William T. Grant Foundation \$250,000, October 2003 – 2006

Co-Investigator, “Collaborative to enhance and archive research materials from PHDCN,” sponsored by the John D. and Catherine T. MacArthur Foundation, \$200,000, October 2003.

Co-Investigator, “Michigan Colloquium and Social Justice in Education,” sponsored by the Community Foundation for Southeastern Michigan/W.K. Kellogg Foundation, \$50,000, March 2003.

GRANTS (cont.)

- Principal Investigator, "Statistical Methods and Consultation for Studying School and Neighborhood Effects on Alcohol Use and Dependence," subcontract to Harvard, prime sponsor NIAA, \$182,332, Sept. 2002.
- Principal Investigator, Ecometrics: "New Directions for Multilevel Spatial Analysis in the Social Sciences", sponsored by the National Science Foundation, \$299,995, August 2002.
- Principal Investigator, "Analytic Support for the Project on Human Development in Chicago Neighborhoods", subcontract to Harvard, prime sponsor John D. and Catherine T. MacArthur Foundation, \$45,000, Jan. 2002.
- Principal Investigator, "The Chicago Community Study, Wave II/Project on Human Development in Chicago Neighborhoods" subcontract to Harvard, prime sponsor National Institute of Justice, \$300,000, Dec., 2000. **Supplement** to conduct Systematic Social Observation data collection, \$230,000 May, 2002.
- Principal Investigator, "Longitudinal Evaluation of School Change and Performance (LESCP): A Secondary Analysis" subcontract to WESTAT, prime sponsor U.S. Department of Education. \$99,471, August 2001.
- Senior Investigator, "MI Interdisciplinary Center on Social Inequalities, Mind & Body" funded by the National Institute for Health, October 1999, \$1,334,814. Principal Investigator: Dr. George Kaplan, UM, School of Public Health.
- Principal Investigator, "Analytic Support for the Project on Human Development in Chicago Neighborhoods" funded by the National Institute of Mental Health and the John D. and Catherine T. MacArthur Foundation, \$528,176, January, 1998.
- Principal Investigator, "Analytic Support for Predictors and Consequences of Exposure to Violence" funded by National Institute of Mental Health and Harvard University, \$588,000, February 1997.
- Principal Investigator, "Optimal Design for Multilevel and Longitudinal Research" funded by National Institute of Mental Health, Services Research Branch, \$395,754, December 1996.
- Principal Investigator, "Analytic Support for Project on Human Development in Chicago Neighborhoods" with funds from the John D. and Catherine T. MacArthur Foundation, \$79,359, August, 1996.
- Co-Investigator, "Schooling and Cognitive Development: Analytic Support" funded by National Institute of Child Health and Human Development and Loyola University, \$13,132, September 1996.
- Principal Investigator, "The Relationship Between Subdomains of Adult Literacy and Labor Force Outcomes" with funds from Statistics Canada, \$100,000, May, 1995.
- Principal Investigator, "Methodological Alternatives in the Analysis of Data from NAEP," funded by the National Center for Education Statistics, \$62,475, May, 1995.
- Principal Investigator, "Analytic Support for the Program on Human Development in Chicago Neighborhoods: Amended Phase I Scope of Work," with funds from the John D. and Catherine T. MacArthur Foundation, \$53,451, May 1995.
- Principal Investigator, "Social Origins, Educational Attachment, and Labor Force Outcomes: A Cross-National Investigation" with funds from Statistics Canada, \$194,262, September, 1994.

GRANTS (cont.)

- Principal Investigator, "Analytic Support for the Program on Human Development in Chicago Neighborhoods: Phase I Scope of Work," with funds from the John D. and Catherine T. MacArthur Foundation, \$139,000, 1994.
- Principal Investigator, "State-to-State Variation in the Social Distribution of Mathematics Achievement," funded by the National Center for Education Statistics, \$115,754, March, 1994.
- Principal Investigator, "Synthesizing Cross-National Effects Data: Alternative Models and Methods," funded by the National Center for Education Statistics, \$87,311, May 1, 1993 (with supplemental funding January 11, 1994).
- Principal Investigator, "Analytic Models for Individual Change in Social Context," funded by the John D. and Catherine T. MacArthur Foundation, \$73,534, January, 1991.
- Principal Investigator, "Analytic Models for Individual Change in Social Context," funded by the John D. and Catherine T. MacArthur Foundation, \$29,000, January, 1991.
- Principal Investigator, "On-The-Job Improvements in Teacher Competence: Policy Options and Their Effects on Teaching and Learning." Funded by the World Bank for \$20,000.00, December, 1990.
- Principal Investigator, "Crossed Random Effects Models: Estimation and Applications in Educational Research." All-University Research Grant, \$8,012 funded July 1990.
- Contributor to research proposal to the U.S. Agency for International Development entitled "Improving Primary School Quality in Thailand," funded in June, 1988, for \$ 159,000.00.
- Principal investigator grant from Grand Rapids Public Schools item analysis for new testing program, 1987, \$1,432.00.
- Contributor to research proposal to the U.S. Department of Education entitled "The Relationship of Content to School Workplace Conditions, Teaching and Student Outcomes," funded, 1987. (A collaborative project involving Stanford University and Michigan State University.)
- Co-author and co-principal investigator in proposal to Spencer Foundation for Research grant entitled "Application of Hierarchical Linear Models in Educational Research: for \$98,000, 1985 (\$38,704 to Michigan State University); funded, 1985.
- Contributor to research proposal to the United States Agency for International Development for "Project BRIDGES: Basic Research and Implementation in Developing Systems," with Michigan State University as sub-contractor and Harvard University as lead institution: funded, 1985 (\$537.000 for the Thailand component).
- Co-author of teacher in-service training proposal to the National Institute of Education for "Project STILE (Student Teacher Interactive Learning Environments," for \$148,000: funded, 1980 (Project validated as exemplary by the Massachusetts Department of Education, 1979).

BOOKS

- Raudenbush, S.W. and Bryk, A.S. (2002). Hierarchical Linear Models (Second Edition). Thousand Oaks: Sage Publications, 482 pp.
- Bryk, A.S., & Raudenbush, S.W. (1992). Hierarchical Linear Models in Social and Behavioral Research: Applications and Data Analysis Methods (First Edition). Newbury Park, CA:

Sage Publications.

Raudenbush, S.W., & Willms, J.D. (1991). Pupils, Classrooms, and Schools: International Studies of Schooling from a Multilevel Perspective. New York: Academic Press.

PUBLISHED ARTICLES AND CHAPTERS

- Hong, G. and Raudenbush, S. W. (in press). Evaluating kindergarten retention policy: A case study of casual inference for multi-level observational data. Journal of American Statistical Association.
- Raudenbush, S.W. (in press). Many small groups. To appear in, deLeeuw, Jan and Kreft, Ita (Eds.), Handbook of Quantitative Multilevel Analysis. Kluwer Press.
- Raudenbush, S.W., Hong, G., and Rowan, B. (in press). Studying the causal effects of instruction with application to primary-school mathematics. To appear in Ross, J. M., Bohrnstedt, G.W. and Hemphill, F.C. (editors), *Instructional and Performance Consequences of High Poverty Schooling*. National Council for Educational Statistics, Washington DC.
- Raudenbush, S.W. (in press). Designing field trials of educational innovations. Proceedings from *Conceptualizing Scale-Up: Multidisciplinary Perspectives Conference*. Washington DC: Data Research and Development Center.
- Bingenheimer, J., Leventhal, T., Brooks-Gunn, J. and Raudenbush, S.W. (in press). Measurement equivalence for two dimensions of children's home environments. To appear in *Journal of Family Psychology*.
- Harrison, D. and Raudenbush, S.W. (in press). Linear regression and hierarchical linear models. To appear in Green, J., Camilli, G., and Elmore, P. (editors) *Complementary Methods for Research in Education*. Washington, DC: American Educational Research Association.
- Hong, G. and Raudenbush, S.W. (in press). Effects of kindergarten retention policy on children's cognitive growth in reading and mathematics. To appear in *Educational Evaluation and Policy Analysis*.
- Johnson, C and Raudenbush, S.W. (2006) A repeated measures, multilevel Rasch model with application to self-reported criminal behavior. Bergeman, C.S. & Boker, S.M. (eds.) *Methodological Issues in Aging Research*. 5:131-64
- Raudenbush, S.W. (2005). How do we study what happens next? *Annals of the American Academy of Political and Social Science*, November 1, 2005, 601(1):
- Hong, G., and Raudenbush, S.W. (2005). Effects of Kindergarten Retention Policy on Children's Cognitive Growth in Reading and Mathematics. *Educational Evaluation and Policy Analysis*, 27,3,205-224.
- Raudenbush, S.W. (2005). Learning from attempts to improve schooling: The contribution of methodological diversity. *Educational Researcher*, Vol. 34(5), 25-31.
- Ewing, R., King, M.R., Raudenbush, S.W., and Clemente, O.J. (2005). Turning highways into main streets: Two innovations in planning methodology. *Journal of the American Planning Association*, Vol. 71(3), 1-14.
- Hannan, E.L., Wu, C., DeLong, E.R., Raudenbush, S.W. (2005). Predicting risk-adjusted mortality for CABG surgery: Logistic vs. hierarchical logistic models. *Medical Care*, Vol. 43(7), 726-735.
- Sampson, R.J., Morenoff, J.D. and Raudenbush, S.W. (2005). Social anatomy of racial and ethnic disparities in violence. *American Journal of Public Health*, 95: 224-232

- Sampson, R.J. and Raudenbush, S.W., Neighborhood stigma and the perception of disorder. *Focus*. Vol. 24, No.1, Fall 2005.
- Raudenbush, S.W. (2004). What are value-added models estimating and what does this imply for statistical practice? *Journal of Educational and Behavioral Statistics*, 29(1), 121-129.
- Raudenbush, S.W. (2004). Schooling, statistics, and poverty: *Can we measure school improvement?* William H. Angoff Memorial Lecture Series, Educational Testing Service, Policy Evaluation and Research Center.
- Bingenheimer, J. & Raudenbush, S.W. (2004). Statistical and substantive inferences in public health: Issues in the application of multilevel models. *Annual Review of Public Health*, 25, 53-77.
- Kang, S.J., Rowan, B., and Raudenbush, S.W. (2004). Estimating the effects of academic departments on organic design in high schools: A crossed-multilevel analysis. In Hoy, W.K. and Miskel, C. (eds.) *Educational Administration, Policy, and Reform: Research and Measurement*, (pp.123-152), Information Age Publishing.
- Liu, X. and Raudenbush, S.W. (2004). A note on the noncentrality parameter and effect size estimates for the F test in ANOVA. *Journal of Educational and Behavioral Statistics*, 29(2), 251-255.
- Sampson, R.J. & Raudenbush, S.W. (2004). The social structure of seeing disorder. *Social Psychology Quarterly*, 67(4), 319-342.
- Verbitsky, N. & Raudenbush, S.W. (2004). Causal inference in spatial settings. Proceedings of the American Statistical Association, Social Statistics Section [CD-ROM], American Statistical Association, 2369-2374, Alexandria, VA.
- Ewing, R., Schmid, T.L., Killingsworth, R.E., Zlot, A.I. and Raudenbush, S.W. (2003). Relationship between urban sprawl and physical activity, obesity, and morbidity. *The American Journal of Health Promotion*, 18(1), 47-57.
- Raudenbush, S.W., Johnson, C. and Sampson, R. J. (2003). A multivariate, multilevel Rasch model for self-reported criminal behavior. *Sociological Methodology*, Vol. 33(1), 169-211.
- Buka, S. L., Brennan, R.T., Rich-Edwards, J.W., Raudenbush, S.W. and Earls, F. (2003). Neighborhood support and the birth weight of urban infants. *The American Journal of Epidemiology*, 157(1), 1-8.
- Cohen, D.K., Raudenbush, S.W., & Ball, D.L. (2003). Resources, instruction, and research. *Educational Evaluation and Policy Analysis*, 25(2), 1-24.
- Raudenbush, S.W. (2003). The quantitative assessment of neighborhood social environment. In Kawachi, I and Berkman, L. (Eds.), *Neighborhoods and Health* (pp. 112-131). Oxford University Press.
- Raudenbush, S.W. (2003). [Comments on *Measurement, Objectivity, and Trust* by Theodore M. Porter.] *Measurement*, 1(4), 274-278.
- Cohen, D., K., Raudenbush, S. W., & Ball, D. L. (2002). Resources, Instruction, and Research. In F. Mosteller & R. Boruch (Eds.), *Evidence matters: Randomized trials in education research*, (pp. 80-119). Washington, DC: Brookings Institution Press.
- Raudenbush, S. W. (2002). Mixed modeling matures [Review of the books *Linear Mixed Models for Longitudinal Data (and) Mixed-Effects Models in S and S-Plus*], by G. Verbeke, & G. Molenberghs (and) J. Pinheiro, & D. Bates (New York: Springer, 2000). *Sociological Methods and Research*, 31(1), 110-118.

- Raudenbush, S.W. (2002). Alternative covariance structures for polynomial models of Individual growth and change. In Moskowitz, Debbie, and Hershberger, Scott (Eds.), *Modeling Intraindividual Variability with Repeated Measures Data: Methods and Applications*, (pp. 25-58). Mahwah, New Jersey: Lawrence Erlbaum Associates.
- Raudenbush, S. W., & Kim, J.S. (2002). Statistical issues in analysis of international comparisons of educational achievement. In A. C. Porter & A. Gamoran (Eds.), *Methodological Advances in Cross-National Surveys of Educational Achievement* (pp. 267-294). Washington DC: National Academy Press.
- Cheong, Y.F., Fotiu, R.P, & Raudenbush, S.W. (2001). Efficiency and robustness of alternative estimators for 2- and 3- level models: The case of NAEP. *Journal of Educational & Behavioral Statistics*, 26(4), 411-429.
- Raudenbush, S.W. & Liu, X. (2001). Effects of Study Duration, Frequency of Observation, and Sample Size on Power in Studies of Group Differences in Polynomial Change. *Psychological Methods*, 6(4), 387-401.
- Raudenbush, S.W. (2001). Toward a coherent framework for comparing trajectories of individual change. Collins, L. and Sayer, A. (Eds.), New methods for the analysis of change (pp.35-64). Washington D.C.: The American Psychological Association.
- Raudenbush, S.W. (2001). Comparing personal trajectories and drawing causal inferences from longitudinal data. *Annual Review of Psychology*, 52, 501-25.
- Duncan, G.J. & Raudenbush, S.W. (2001). Neighborhoods and adolescent development: How can we determine the links? In Alan Booth and Nan Crouter (Eds.), Does it Take a Village? Community Effects on Children, Adolescents, and Families, [pp. 105-136]. State College, PA: Pennsylvania State University Press.
- Duncan, G.J. & Raudenbush, S.W. (2001). Getting context right in quantitative studies of child development. In Arland Thornton (Ed.), The Well-Being of Children and Families, [pp. 356-383]. Ann Arbor, MI: The University of Michigan Press.
- Kerckhoff, A.C., Raudenbush, S.W. & Glennie, E. (2001). Education, cognitive skill, and labor force outcomes. *Sociology of Education*, 74(1), 1-24.
- Morenoff, J.D., Sampson, R.J. and Raudenbush, S.W. (2001). Neighborhood structure, social processes, and the spatial dynamics of urban violence. *Criminology*, 39(37), 517-560.
- Sampson, R.J. & Raudenbush, S.W. (Feb. 2001). Disorder in urban neighborhoods. Does it lead to crime? National Institute of Justice, Research Brief.
- Cheong, Y.F. & Raudenbush, S.W. (2000). Measurement and structural models for children's problem behaviors. *Psychological Methods*, 5(4), 477-495.
- Kuo, M., Mohler, B., Raudenbush, S.W., & Earls, F.J. (2000). Assessing exposure to violence using multiple informants: Application of hierarchical linear model. *The Journal of Child Psychology and Psychiatry*, 41, 1049-1056.
- Miyazaki, Y. & Raudenbush, S.W. (2000). A test for linkage of multiple cohorts from an accelerated longitudinal design. *Psychological Methods*, 5(1), 44-63.
- Raudenbush, S.W. (2000). [Comment on the article Marginalized Multilevel Models and Likelihood Inference, by Patrick J. Heagerty & Scott L. Zeger.] *Statistical Science*, 15(1), 22-24.
- Raudenbush, S. W. (2000). Making causal connections. In J. P. Shonkoff & D. A. Phillips (Eds.), *From Neurons to Neighborhoods: The Science of Early Childhood Development* (pp. 70-87, 545-548). Washington DC: National Academy Press.

- Raudenbush, S.W. (2000). Synthesizing results for NAEP trial state assessment. In Grissmer, D.W. and Ross, Michael (Eds.), Analytic Issues in the Assessment of Student Achievement, Washington, DC: National Center for Educational Statistics.
- Raudenbush, S.W. & Liu, Xiaofeng. (2000). Statistical power and optimal design for multisite randomized trials. Psychological Methods, 5(3), 199-213.
- Raudenbush, S.W., Yang, Meng-Li, & Yosef, M. (2000). Maximum likelihood for generalized linear models with nested random effects via high-order, multivariate Laplace approximation. Journal of Computational and Graphical Statistics, 9(1), 141-157.
- Raudenbush, S.W., Fotiu, R.P. & Cheong, Y.F. (1999). Synthesizing results from the trial state assessment. Journal of Educational and Behavioral Statistics, 24(4), 413-438.
- Raudenbush, S.W., & Sampson, R. (1999). Assessing direct and indirect associations in multilevel designs with latent variables. Sociological Methods & Research, 28(2), 123-153.
- Sampson, R.J. & Raudenbush, S.W. (1999). Systematic social observation of public spaces: A new look at disorder in urban neighborhoods. American Journal of Sociology, 105(3), 603-651.
- Raudenbush, S.W., & Sampson, R. (1999). Ecometrics: Toward a science of assessing ecological settings, with application to the systematic social observations of neighborhoods. Sociological Methodology, 29, 1-41.
- Raudenbush, S.W. (1999). Hierarchical models. In S. Kotz , (Ed.), Encyclopedia of Statistical Sciences, Update Volume 3, (pp. 318-323). New York: John Wiley.
- Raudenbush, S.W., Fotiu, R.P., & Cheong, Y.F. (1998). Inequality of access to educational resources: A national report card for eighth grade math. Educational Evaluation and Policy Analysis, 20(4), 253-268.
- Duncan, G.J., & Raudenbush, S.W. (1998). Assessing the effects of context in studies of child and youth development. Educational Psychologist, 34(1), 29-41.
- Raudenbush, S.W. (1998, May). [Review of the book A solution to the ecological inference problem: Reconstructing individual behavior from aggregate data by Gary King.] American Journal of Sociology, 103(6), 1770-1772.
- Kasim, R. & Raudenbush, S. (1998). Application of Gibbs sampling to nested variance components models with heterogenous with-in group variance. Journal of Educational and Behavioral Statistics, 23(2), 93-116.
- Raudenbush, S.W., & Kasim, R. (1998). Cognitive skill and economic inequality: Findings from the National Adult Literacy Survey. Harvard Educational Review, 68(1), 33-79.
- Sampson, R.J., Raudenbush, S.W., & Earls, F. (1998, March). Neighborhood cohesion - does it help reduce violence? National Institute of Justice Research Preview, Washington, DC. Abstracted with permission from Sampson, R.J., Raudenbush, S.W. & Earls, F. A Neighborhoods & violent crime - A multilevel study of collective efficacy@, Science, 277, (1-7).
- Selner-O'Hagan, M.B., Kindlon, D.J., Buka, S.L., Raudenbush, S.W., & Earls, F.J. (1998). Assessing Exposure to Violence in Urban Youth. Journal of Child Psychology and Psychiatry and Allied Disciplines, 39(2), 215-224.
- Sampson, R.J., Raudenbush, S.W., & Earls, F. (1997). Neighborhoods and violent crime: A multilevel study of collective efficacy. Science, 277, 918-924.
- Raudenbush, S.W. (1997). Statistical analysis and optimal design for cluster randomized trials. Psychological Methods, 2(2), 173-185.

- Willms, J.D., & Raudenbush, S. (1997). Effective schools research: Methodological issues. In Saha, L.J. (Ed.), The International Encyclopaedia of the Sociology of Education (1934-1939). New York: Elsevier.
- Kindlon, D.J., Wright, B.D., Raudenbush, S.W. & Earls, F. (1996). The measurement of children's exposure to violence: A Rasch analysis. International Journal of Methods in Psychiatric Research, *6*, 197-194.
- Raudenbush, S.W., Cheong, Y.F., & Fotiu, R.P. (1996). Social inequality, social segregation, and their relationship to reading literacy in 22 countries. The IEA Reading Literacy Study: The United States in International Perspective, Section A, (pp 5-62), National Center for Educational Statistics.
- Kalaian, H.A. & Raudenbush, S.W. (1996). A multivariate mixed linear model for meta-analysis. Psychological Methods, *1*(3), 227-235.
- Barnett, R.C., Raudenbush, S.W., Brennan, R.T., Pleck, J.H., and Marshall, N.L. (1995). Change in marital experiences and change in psychological distress: A longitudinal study of dual-earner couples. Journal of Personality and Social Psychology, *69*(5), 839-850.
- Raudenbush, S.W., & Willms, J.D. (1995). The estimation of school effects. Journal of Educational and Behavioral Statistics, *20*(4), 307-335.
- Raudenbush, S.W., Brennan, R.T., & Barnett, R.C. (1995). A multivariate hierarchical model for studying psychological change within married couples. Journal of Family Psychology, *9*(2), 161-174.
- Raudenbush, S.W. (1995). Re-examining, reaffirming, and improving application of hierarchical models. Journal of Educational and Behavioral Statistics, *20*(2), 210-220.
- Raudenbush, S.W. (1995). Maximum likelihood estimation for unbalanced multilevel covariance structure models via the EM algorithm. British Journal of Mathematical and Statistical Psychology, *20*, 2, 210-220.
- Raudenbush, S.W. (1995). Hierarchical linear models: The case of school effects on literacy. In M. Binkley, K. Rust, and M. Winglee (Eds.) Methodological Issues in Comparative International Studies: The Case of Reading Literacy, Chapter 8, (pp. 231-241), Washington: National Center for Educational Statistics.
- Raudenbush, S.W., Cheong, Y.F., & Fotiu, R. (1995). Synthesizing cross-national classroom effects data: Alternative models and methods. In M. Binkley, K. Rust, and M. Winglee (Eds.) Methodological Issues in Comparative International Studies: The Case of Reading Literacy, Chapter 9, (pp 243-275), Washington: National Center for Educational Statistics.
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RECENT INVITED PRESENTATIONS

Raudenbush, S.W. (2004). Assessing the Causal Effects of Alternative Instructional Regimes. Invited speaker at the National Science Foundation, Washington, D.C.

Raudenbush, S.W. (2004). Schooling, Statistics and Poverty: Can We Measure School Improvement? Invited speaker for the William Angoff Memorial Lecture, Educational Testing Service, New Jersey.

Raudenbush, S.W. (2004). Assessing Neighborhoods: How Do We Do It and What Have We Learned? Invited speaker for the Society of Fellows, University of Michigan, Ann Arbor.

Raudenbush, S.W. (2003). Designing Field Trials of Educational Innovations. Invited speaker at the DRDC Conceptualizing Scale-Up: Multidisciplinary Perspectives Conference, Washington D.C.

Raudenbush, S.W. (2003). Methodology. Invited speaker at the National Academy of Education Fellows' Retreat and Annual Meeting. Harvard University, Cambridge.

Raudenbush, S.W. (2003). Ethnic Disparities in Violent Crime: Individual, Family and Neighborhood Sources. Invited speaker at the 3rd Annual Development, Psychopathology & Mental Health Symposium, University of Michigan. Sponsored by the Center for Development & Mental Health, Department of Psychology and six other organizations, May 30-31.

Raudenbush, S.W. (2003). Current Issues in Educational Research. Invited panelist at the plenary session of the Spencer Foundation's Professional Development Conference for Junior Faculty, May 28-30.

Raudenbush, S.W. (2003). Hierarchical Linear Modeling of life Event Calendar Data. Invited speaker at the NCOVR Workshop on Statistical Analyses of Life Event Calendar Data. Pittsburgh, May 8-9.

Raudenbush, S.W. (2003). Hierarchical Linear Modeling – Causal Inference in Educational Research. Invited speaker at the National Council for Measurement in Education Graduate Student Issues Committee Invited Symposium, Chicago, April.

Raudenbush, S.W. (2003). Assessing Neighborhoods: How Do We Do It and What Have We Learned. Invited speaker for the Cliff Clogg Memorial Lecture, Penn State University, April 14.

Raudenbush, S.W. (2003). Some Thoughts on Causal Inference in a Social World. Presented as a lunch seminar for the Department of Statistics, Penn State University, April 14.

Raudenbush, S.W. (2003). Understanding Age-Related Change in Violent Crime: Concepts, Designs, Measures, and Some Findings. Presented as a lunch seminar for the Sociology Department, Penn State University, April 15.

Raudenbush, S.W. and Verbitsky, N. (2003). Studying neighborhood effects on health: An overview of methodological challenges. Invited speaker at the ENAR conference in Tampa, FL, March.

Raudenbush, S.W., Johnson, C., & Sampson, R.J. (2003). A Repeated Measures, Multilevel Rasch Model with Application to Self-reported Criminal Behavior. Invited speaker at workshop at the University of Wisconsin, Madison, January.

- Raudenbush, S.W. (2002). Invited speaker at the Student's for Social Justice meeting, School of Education, University of Michigan, December.
- Raudenbush, S.W., Hong, G., and Rowan, B. (2002). Causal Inference in Educational Research. Presented at colloquium for the Combined Program in Education and Psychology (CPEP), University of Michigan, December.
- Raudenbush, S.W. (2002). Hierarchical linear models: Applications in educational research. Invited presenter at conference sponsored by the Florida Educational Research Association, Gainesville, Florida, Nov.
- Raudenbush, S.W. (2002). Applications of Hierarchical Modeling in Research on Smoking. Keynote speaker at the National Tobacco Monitoring, Research, and Evaluation Workshop, Bethesda, Nov. 4.
- Raudenbush, S.W., Johnson, C., & Sampson, R.J. (2003). A Repeated Measures, Multilevel Rasch Model with Application to Self-reported Criminal Behavior. Invited speaker at the University of Notre Dame Series on Quantitative Methodology, May 31-June 1.
- House, J., Raudenbush, S.W., Morenoff, J. (2002). Using interviewers to do systematic social observation of block/neighborhood characteristics: A methodological study. Presented at the Survey Research Center Research Staff Seminar, University of Michigan, May 21.
- Raudenbush, S.W., Hong, G. and Rowan, Brian. (2002). Studying the Causal Effects of Instruction with Application to Primary-School Mathematics. Invited talk at the Research Seminar II: Instructional and Performance Consequences of High-poverty Schooling, National Center for Education Statistics, March 11.
- Raudenbush, S.W. (2002). Identifying Scientifically-Based Research in Education. Invited speaker at the Scientifically Based Research Seminar, U.S. Department of Education, Feb. 6.
- Raudenbush, S.W. (2001). New Directions in the Evaluation of Title I. Invited speaker at the Secretary's Forum on Research and Value-Added Assessment Data, U.S. Department of Education, Dec. 5.
- Raudenbush, S.W. (2001). Neighborhoods and Youth Violence in Chicago. Colloquium given for the Department of Psychology, University of Michigan. Nov. 19.
- Raudenbush, S.W. (2001). School Accountability and Student Learning: A Mixed Model. Colloquium given for the Department of Statistics, University of Michigan, Nov. 12.
- Cohen, D, Raudenbush, S.W., and Ball, D. (2001). Resources, Instruction and Research. Invited talk for The Spencer Foundation. Oct. 24-25.
- Raudenbush, S.W. (2001). Statistical Models for Self-Reported Criminal Behavior. Invited speaker at Johns Hopkins University, September 28.
- Raudenbush, S. W. and Hong, G. (2001). Models for School and Teacher Effects on Student Learning. Presented at the Consortium for Chicago School Research, July 6.
- Raudenbush, S.W. (2001). Accountability, Causal Inference & Social Justice. Invited speaker at Planning the Future: A Summer Institute for Superintendents, June 27.
- Raudenbush, S.W. (2001). Interplay between Theory and Method: The Case of Hierarchical Models. Invited speaker at the annual meeting of the American Educational Research Association, Seattle, WA., April.
- Raudenbush, S.W. (2001). Advances in Hierarchical Linear Modeling. Presentation at the "Data Analytic Methods in Family Research" NIMH Families and HIV/Aids Methodology, Miami, FL. Feb. 7-9.

- Raudenbush, S.W. (2000). Statistical Issues in Analysis of International Comparisons of Educational Achievement. Presentation at Board on International Comparative Studies in Education Symposium, National Academy of Science. Washington, DC., Nov. 1.
- Raudenbush, S.W. (2000) Assessing the Quality of Environments in which Children Develop: A multivariate, Three Level Logistic Regression Model. Invited speaker at the Fifth International Conference on Social Science Methodology, University of Cologne, Germany, Oct. 4-6.
- Raudenbush, S.W. (2000). The Quantitative Assessment of Neighborhood Social Environments, Presentation at the Neighborhood and Health Conference. Harvard University. June 1-3.
- Raudenbush, S.W. (2000). School Accountability and Student Learning: A Mixed Model. Talk given at the Department of Statistics, University of Michigan, Feb. 12.
- Raudenbush, S.W. (2000). Interdisciplinary Research: Integration of Methods. Presented at Network Directors meeting of the John D. & Catherine T. MacArthur Foundation. June 29-30.
- Raudenbush, S.W. (2000). Hierarchical Models for Binary Data, Counts, Ordinal Data and Multinomial Data. Speaker at Prevention Research Center and the Social Development Research Group at the University of Washington, Seattle. June 8-10.
- Raudenbush, S.W. (2000). Comments on "Interactions-based models" by Steven N. Durlauf. Presented at the Understanding Poverty in America: Progress and Problems. Annual Conference of the Poverty Research Center, Madison, WI. May 22-24.
- Raudenbush, S.W. (2000). Hierarchical Linear Models. Presentation at the Third International Institute on Developmental Science Biological Aspects of Behavioral Development. The University of North Carolina. May, 17.
- Raudenbush, S.W. (2000). Causal Inferences in Studies of Child Development. Invited talk at the National Institute for Child Health & Human Development Network on Early Childhood, Ann Arbor, MI, April 13.
- Raudenbush, S.W. (2000). Assessing Neighborhood Social Environments with Implications for the Study of Mental Health. Presentation at the Social Environment and Health Training Seminar, ISR, University of Michigan, March 17.
- Raudenbush, S.W. (2000). Three-level Hierarchical Models for Multivariate Latent Variables Based on Binary Item Responses. Columbia University, Department of Biostatistics Colloquium, New York, March 2.
- Raudenbush, S.W., & Johnson, C. (2000). Applications of HLM in Human Development. Presentation for the School of Nursing, University of Michigan, Feb. 24.
- Raudenbush, S.W. (2000). Describing and Comparing Trajectories of Individual Change. Talk given at the Population Studies Center, University of Michigan, Feb. 7.
- Raudenbush, S.W. (1999). A Framework for Comparing Trajectories of Individual Change. Colloquium at the Waisman Center, University of Wisconsin at Madison, Nov. 11-12.
- Raudenbush, S.W. (1999). Strategies for Improving Educational Research. Presentation at the Spencer Foundation Board Meeting, Oct. 27.
- Raudenbush, S.W. (1999). Educational Research and Institute for Social Research. ISR Roundtable presentation, University of Michigan, Oct. 26.
- Raudenbush, S.W. (1999). Advances in Psychometrics with Applications to Cognitively Based Assessment. Invited talk for the National Academy of Science Committee on Cognitively -Based Assessment, Washington, D.C. Sept. 30.

- Raudenbush, S.W. (1999). Methodological Challenges and Strategies. MacArthur Foundation Network Directory Meeting, Chicago, IL, June, 1999.
- Raudenbush, S.W. (1999). Collective Efficacy & Crime: Research and Policy Implications. Seminar at the National Institute for Justice, June, 1999.
- Raudenbush, S.W. (1999). Director of the NSF Statistics Institute. Three-day pre-session for the American Educational Research Association, Montreal, Canada, April, 1999.
- Raudenbush, S.W. (1999). Models for Uncertainty in Assessing Schools and Neighborhoods and Some Statistical and Computational Considerations. Invited speaker for the 2nd International conference on Multilevel Analysis; Amsterdam, The Netherlands; March 30, 1999.
- Raudenbush, S.W. (1999). Hierarchical Linear Models. Colloquium given for the University of Michigan=s Medical School; Ann Arbor, MI; April, 1999.
- Raudenbush, S.W. (1998). Maximum Likelihood for Hierarchical Models via High-Order, Multivariate LaPlace Approximation. Seminar presented for the University of Michigan's Department of Biostatistics; Ann Arbor, MI; Dec. 12, 1998.
- Duncan, G.J., & Raudenbush, S.W. (1998). Neighborhoods and Adolescent Development: How Can We Determine the Links? Presented at Pennsylvania State University, Nov. 25, 1998.
- Raudenbush, S.W. (1998). Optimal Design for Longitudinal and Multilevel Research. Seminar presented for the University of Michigan's Survey Research Center, Nov. 17, 1998.
- Raudenbush, S.W. (1998). Social and Ethnic Inequality of Access to Educational Resources. Presentation given for the National Center for Educational Statistics, Washington D.C, Nov. 17, 1998.
- Raudenbush, S.W. (1998). Toward a Coherent Framework for Comparing Trajectories of Individual Change. Presentation given at the "New Methods for the Analysis of Change" conference, Pennsylvania State University; University Park, PA; Oct. 11-13, 1998.
- Raudenbush, S.W. (1998). Models for studying individual change and growth. Presentation for the MacArthur Foundation Research Network on Successful Pathways through Middle Childhood, University of California at Berkeley.
- Raudenbush, S.W. (1998). Ecometrics: Assessing the social setting in which children develop. Presentation for the Institute for Child Youth and Families, Michigan State University, East Lansing, MI.
- Raudenbush, S.W. (1998). Toward a science of ecological assessment: A model for the systematic social observation of neighborhoods. Colloquium given for the Combined Program in Education & Psychology, University of Michigan, Ann Arbor, MI.
- Raudenbush, S.W. (1998). Assessing neighborhood social organization through interviews and systematic social observation. Presentation given for New York University, New York.
- Raudenbush, S.W. (1997). Optimal design for certain longitudinal and multilevel studies. Presentation for NIMH Prevention Research Conference, Seattle, Washington.
- Duncan, G. J. & Raudenbush, S.W. (1997). Getting context right in quantitative studies of child development. Presented at the conference "Research Ideas and Data Needs for Studying the Well-Being of Children and Families." Arlie Center, Virginia.
- Raudenbush, S.W. (1997). Neighborhood collective efficacy: Violence & crime in urban neighborhoods. Presentation at Wayne State University.

PRESENTATIONS AT PROFESSIONAL CONFERENCES

- Raudenbush, S.W. (2005). Discussant for “Making sense of causal inference in program evaluation and policy research.” 2004 Career Award Winner Address presented at the annual meeting of the National Council on Measurement and Education, Montreal, Canada.
- Raudenbush, S.W. (2005). Discussant for “Linking state educational policies to the black-white achievement gap in mathematics.” Presentation at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Raudenbush, S.W. (2005). Participant in roundtable discussion on “Randomized controlled trials in education: Using them appropriately.” American Educational Research Association, Montreal, Canada.
- Hong, Guanglei and Raudenbush, S.W. (2005). Potential-outcomes causal framework for multi-level data: The role of exchangeability. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Hong, Guanglei and Raudenbush, S.W. (2004). Evaluating kindergarten retention policy: Causal inference for multi-level observational data. Paper presented at the ASSAM Conference, University of Michigan, Ann Arbor.
- Raudenbush, S.W. (2004). What should be the gold standard(s) of research design for studying leadership effects on student outcomes? Paper presented at the symposium session of “Enhancing the Mindfulness and Utility of Evidence-Based Research in Educational Leadership.” Annual Meeting of the American Educational Research Association, San Diego.
- Raudenbush, S.W. (2004). Presentation on “Value-Added Models” at the HLM SIG Business Meeting. Annual Meeting of the American Educational Research Association, San Diego.
- Raudenbush, S.W. (2004). Discussant for “Replication in Qualitative Educational Research”, presidential invited session. Annual Meeting of the American Educational Research Association, San Diego.
- Raudenbush, S.W. (2004). Discussant for “Project STAR and Beyond.” Annual Meeting of the American Educational Research Association, San Diego.
- Raudenbush, S.W. (2004). Discussant for “Compositional Effects and Educational Outcomes.” Annual Meeting of the American Educational Research Association, San Diego.
- Hong, Guanglei and Raudenbush, S.W. (2004). Causal inference for multi-level observation data. Paper presented at the Annual meeting of the American Educational Research Association, San Diego.
- Raudenbush, S.W. & Bloom, Howard (2004). Randomizing groups to evaluate place-based programs. Presented at a pre-conference session of the Society for Research on Adolescence Meeting, Baltimore.
- Raudenbush, S.W., Bryk, A.S., & Ponsiciak, S. (2003). School accountability. Symposium presented at the American Educational Research Association annual meeting, Chicago.
- Raudenbush, S.W. (2003). Discussant for “Recent developments in multilevel modeling: Some methodological and computational issues. Annual meeting of the American Educational Research Association, Chicago.

- Harrison, D. and Raudenbush, S.W. (2003). Studying effects of holidays, day of week, & month repeated measure, multilevel Rasch model. Presented at the American Educational Research Association annual meeting, Chicago.
- Hong, G. & Raudenbush, S.W. (2003). Causal inference for multi-level observational data with application to kindergarten retention study. Proceedings of the *American Statistical Association*, Social Statistics Section [CD-ROM], Alexandria, VA: American Statistical Association: pp. 1849-1856.
- Hong, G. and Raudenbush, S.W. (2003). Causal effects of kindergarten retention vs. promotion of kid's cognitive growth. Presented at the American Educational Research Association annual meeting, Chicago.
- Johnson, C., Raudenbush, S.W. & Rowan, B. (2003). Repeated measure, multilevel Rasch model. Presented at the American Educational Research Association annual meeting, Chicago.
- Raudenbush, S.W. and Sampson, R.J. (2002). Statistical models for self-reported criminal behavior. Presented at the American Society for Criminology, November.
- Sampson, R.J. and Raudenbush, S. W. (2002). Systematic social observation: Rationale, design and model. Didactic seminar at the American Statistical Association annual meeting, August.
- Raudenbush, S.W. (2002). Optimal experimental designs for evaluating whole-school interventions. Seminar presented at the annual meeting of the American Educational Research Association, New Orleans, April.
- Raudenbush, S.W. and Hong, G. (2002). Re-conceptualizing instructional treatments and modeling instructional regime effects on student learning. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, April.
- Raudenbush, S.W. (2002). Discussant for "Analysis of Item Responses Data by Multilevel Modeling - HLM Approaches." Annual meeting of the American Educational Research Association, New Orleans, April.
- Hong, G. and Raudenbush, S.W. (2002). Instructional time, content difficulty, and students learning of math in high poverty. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, April.
- Raudenbush, S.W., Johnson, C. and Sampson, R. (2001). Statistical Models for Self-Reported Criminal Behavior. Presentation at the American Society of Criminology, Nov. 9.
- Liu, X.F. and Raudenbush (2001). Computation of Power for 3-level Hierarchical Linear Models. Presentation at the annual meeting of the American Educational Research Association, Seattle, WA., April.
- Raudenbush, S.W. (2000). Discussant for "Methodological Issues in Studying the Relationship of Curriculum and Achievements: Illustrations from the Third International Mathematics and Science Study (TIMSS)." Annual meeting of the American Educational Research Association, New Orleans, April.
- Raudenbush, S.W. (2000). Centering Explanatory Variables with Two-Level Hierarchical Models. Paper presented at the Spring meeting of the Biometrics Society, Chicago, IL, March 20.
- Sampson, R., Morenoff, J., & Raudenbush, S.W. (1999). Assessing Neighborhood-Level Theories of Crime: Social Mechanisms and Spatial Dynamics. Paper given at the Joint Center for Poverty Research Conference, Chicago, IL, Sept. 9-10.

- Raudenbush, S.W. (1999). Complex Hierarchical Modeling. Paper presented at the American Statistical Association, Joint Statistical Meeting, Baltimore, MD, Aug. 9-10.
- Raudenbush, S.W., Yang, M.L., & Yosef, M. (1999). Maximum likelihood for generalized linear models with nested random effects via high-order, multivariate Laplace approximation. Paper given at "Interface 1999," the National Conference of the Institute of Mathematical Statistics, June, 1999.
- Cohen, D. K., Raudenbush, S.W., and Ball, D.L. (1999). Educational Resources, Instruction, and Research. Paper given at the meeting of The American Academy of Arts and Sciences, May, 1999.
- Cheong, Y.F., Fotiu, R., and Raudenbush, S.W. (1999). Analytic Alternatives in the Analysis of Data from the National Assessment of Educational Progress. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada, April, 1999.
- Raudenbush, S.W. (1999). Using Surveys and Observations to Access Neighborhood Social Organization. Paper presented at the American Economic Association conference, New York, NY; Jan. 5, 1999.
- Raudenbush, S.W. (1998). Hierarchical Linear Models. Presentation at the American Psychological Society, Washington DC., May 21, 1998.
- Raudenbush, S.W. (1998). Comparing the incomparable: Scientific issues in making comparisons. Symposium presented at the annual meeting of the American Association for the Advancement of Science, Philadelphia, PA.
- Raudenbush, S.W. (1998). Hierarchical linear modeling. Symposium presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Raudenbush, S.W. & Liu, X. (1998). Statistical power, cost, and budget in experimental design. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA
- Miyazaki, Y. & Raudenbush, S.W. (1998). A test for linkage of multiple cohorts from an accelerated longitudinal design. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Liu, X. & Raudenbush, S.W. (1998). Statistical power, effect size, and sample size in experimental planning. Poster session for annual meeting of the American Educational Research Association, San Diego, Ca.
- Raudenbush, S.W. (1997). Toward a science of ecological assessment: A model for the systematic social observation of neighborhoods. Paper presented at the annual meeting of the American Society of Criminology, San Diego, CA.
- Raudenbush, S.W. (1997). A cornucopia of riches: Choices when analyzing repeated measures data. Symposium for the American Psychological Association, Chicago, IL.
- Raudenbush, S.W. (1996). Discussant of "Results from *Prospects*: The congressionally mandated longitudinal study of educational growth and opportunity," paper session at the annual meeting of the American Educational Research Association, New York, NY.
- Raudenbush, S.W., Fotiu, R.P, Cheong, Y.F., & Ziazi, Z.M. (1996). Synthesizing results from the Trial State Assessment. In the American Statistical Association 1995 Proceedings of the Section on Survey Research Methods, 1, 257-262.
- Raudenbush, S.W. (1995). Discussant of "Perspectives on Statistics for Educational Research," paper session at the National Institute of Statistical Sciences Meetings, Durham, NC.
- Raudenbush, S.W. (1995). Discussant of "Longitudinal Studies: New Findings, Methods, and

- Analyses," paper session at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1995). Synthesizing results from the trial state assessments. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1995). Analytic methods and measurement goals. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1994). Discussant for "Methodological Showcase--Part II: Applications of Hierarchical/Multilevel Models in Criminology" at the annual meeting of the American Society of Criminology, Miami.
- Earls, F.J., Holton, J., Sampson, R.J., Raudenbush, S.W., & Reiss, A.J. (1994). Project on Human Development in Chicago Neighborhoods - An Update presented at the annual meeting of the American Society of Criminology, Miami.
- Kalaian, S., & Raudenbush, S.W. (1994). Application of a multivariate mixed linear model for meta-analysis. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Raudenbush, S.W. (1994). Discussant of "Future and Current Longitudinal Studies Spanning Early Childhood past High School", paper session at the annual meeting of the American Educational Research Association, New Orleans.
- Raudenbush, S.W. (1994). Discussant of "New Developments in Multilevel Modeling," paper session at the annual meeting of the American Educational Research Association, New Orleans.
- Raudenbush, S.W. (1993). Discussant in Symposium: The application of hierarchical linear models to national data bases to better understand successful student outcomes. Annual meeting of the American Educational Research Association, Atlanta.
- Raudenbush, S.W. (1993). Applying hierarchical linear models to data from an accelerated longitudinal design. Paper presented at the Annual Meeting of the American Educational Research Association, Atlanta.
- Raudenbush, S.W. (1993). Hierarchical data and hierarchical linear models. Paper presented at the annual meeting of the American Educational Research Association, Atlanta.
- Raudenbush, S.W. (1993). Studying deviant attitudes and behavior during adolescence: Normal, binomial, and Poisson models with random effects. Paper presented at the bi-annual meeting of the Society for Research on Child Development, New Orleans.
- Raudenbush, S.W. (1993). Hierarchical data and models: The case of school effects on literacy. Paper presented at the Winter Conference of the American Statistical Association, Fort Lauderdale.
- Raudenbush, S.W. (1992). Hierarchical decisions and multilevel analysis. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1992). Modeling the effects of teachers on student growth based on the principle of exchangeability between and within regressions. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1992). HLM analytic issues in the analysis of longitudinal data. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1992). Statistical models for the effects of social context on individual development. Paper presented at the annual meeting of the American Society of

- Criminology, New Orleans.
- Rowan, B., Raudenbush, S.W., & Cheong, F.Y. (1992). Task uncertainty and organizational design in high schools. Paper presented at the annual meeting of the American Educational Research Association.
- Raudenbush, S.W. (1991). On-the-job improvement in teacher competence: Policy options and their effects on teaching and learning. Annual meeting of the Comparative and International Education Society, Pittsburgh.
- Raudenbush, S.W. (1991). Discussant at paper session "Power Considerations in Data Analysis," Annual meeting of the American Educational Research Association, Chicago.
- Raudenbush, S.W., Eamsukawat, S., Di-Ibor, I., Kamali, M., & Taoklam, W. (1991). On-the-job improvements in teacher competence: Policy options and their effects on teaching and learning. Paper presented at the annual meeting of the Comparative and International Education Society, March, 1991, Ann Arbor.
- Raudenbush, S.W., Rowan, B., & Cheong, Y.F. (1991). Sources of intra- and inter-teacher variation in self-perceived efficacy. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago.
- Raudenbush, S.W. & Schmidt, W. (1991). The structural analysis of hierarchical data revisited. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago.
- Raudenbush, S.W., Rowan, S.J., & Cheong, F.Y. (1991). Sources of intra-and inter-teacher variation in self-perceived efficacy with implications for educational research and reform. Paper presented at the annual meeting of the American Educational Research Association, April, 1991, Chicago.
- Raudenbush, S.W. (1990). The distribution of resources for primary education and its consequences for educational achievement in Thailand. Paper presented at the annual meeting of the American Educational Research Association, Boston.
- Raudenbush, S.W. (1989). Chair, paper session, "Theory and Application of Hierarchical Linear Models." Annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W. (1989). Chair and discussant at invited symposium, "Multilevel Analysis in Social Research." Winter meeting of the American Statistical Association, San Diego.
- Raudenbush, S.W., & Bhumirat, C (1989). Indirect effects of school management on primary school achievement. Paper presented at the annual meeting of the American Educational Research Association.
- Raudenbush, S.W., & Bhumirat, C. (1989). Predictors and consequences of teacher knowledge in Thailand. Paper presented at the annual meeting of the Comparative and International Education Association, Cambridge, Massachusetts.
- Raudenbush, S.W., Rowan, B., & Kang, S.J. (1989). The measurement of school climate. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Raudenbush, S.W., & Willms, J.D. (1989). Introduction to hierarchical linear models. Educational and Social Research Council International Conference on Multilevel Methods in Educational Research, University of Edinburgh.
- Raudenbush, S.W. (1988). Discussant on paper session entitled, Assessing school effectiveness, local and state applications of school effectiveness correlates. New Orleans, 1988.

- Raudenbush, S.W. (1988). Hierarchical linear models as general multivariate linear models. Paper presented at the annual meeting of American Educational Research Association, New Orleans, 1988.
- Raudenbush, S.W., Rowan, B., & Kang, S.J. (1988). School climate as an indicator of school effectiveness: Problems of conceptualization, measurement and research design. Paper presented at the annual meeting of the Association for Public Policy Analysis and Management, Seattle.
- Raudenbush, S.W., Bhumirat, C., & Kang, S.J. (1988). A multilevel survey approach to policy issues in primary education. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, 1988.
- Raudenbush, S.W. & Willms, J.D. (1988). Procedures for reducing bias in the estimation of school affects. Presented at the annual meeting of the American Educational Research Association, New Orleans, 1988.
- Rudman, H.C. & Raudenbush, S.W. (1988). Establishing optimum time limits in the administration of standardized tests of word study skills and mathematics applications. Paper presented at the Annual meeting of the National council of Measurement in Education, New Orleans, 1988.
- Willms, J.D. & Raudenbush, S.W. (1988). The stability of school effects: A four year longitudinal study. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, 1988.
- Raudenbush, S.W. (1987). Educational application of hierarchical linear models: A review. AERA, Washington.
- Raudenbush, S.W., & Schwille, J. (1987). Policy implications of the use of different parameters to examine the distribution of outcomes in developing countries. Comparative and International Education Association, Washington, D.C.
- Raudenbush, S.W., Navarro, R., & Beeftu, A. (1987). A multilevel approach to estimating effects in the search for effective schools. Paper to be presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Rudman, H.C., & Raudenbush, S.W. (1987). Exceeding prescribed time limits in the administration of standardized tests of reading comprehension and mathematics. Paper presented at the annual meeting of the American Educational Research Association and the National Council on Measurement in Education, Washington, D.C.
- Schmidt, W., & Raudenbush, S.W. (1987). The need for better specified models. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C., 1987.
- Schwille, J., Raudenbush, S.W., & Prouty, R. (1987). Determining the criteria for evaluating school effectiveness. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Raudenbush, S.W. (1986). Estimating the effect of a treatment on variances in a series of experiments. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Rudman, H.C., & Raudenbush, S.W. (1986). Effects of exceeding prescribed time limits in the administration of standardized tests. Paper presented at the annual meeting of the National Council on Measurement in Education and the American Educational Research Association, San Francisco.

- Raudenbush, S.W. (1985). New strategies for analyzing classroom data. Institute for Research on Teaching Colloquium, Michigan State University.
- Raudenbush, S.W. and Bryk A.S. (1984). Application of empirical Bayes estimation in educational research. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.

RECENT INSTITUTES AND WORKSHOPS

- Raudenbush, S.W. and Verbitsky, N. (2004). Hierarchical Linear Models workshop for LIFE Spring Academy, University of Michigan, May 11, Ann Arbor.
- Raudenbush, S.W., et al. (2004). AERA Institute on Statistical Analysis for Education Policy. Workshop given at the American Education Research Association, April 16-18, San Diego.
- Raudenbush, S.W. and Verbitsky, N. (2004). Hierarchical Linear Models Workshop given for the Society for Social Work and Research, 1st Annual Methodology Workshop, New Orleans, Jan. 15.
- Raudenbush, S.W. and Bryk, A. (2003). HLM Workshop sponsored by Scientific Software International, Chicago, Sept. 18-20.
- Raudenbush, S.W. and Sayer, A. (2003). Advanced hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 7-11.
- Raudenbush, S.W. and Bryk, A. (2003). HLM Workshop sponsored by Scientific Software International, Chicago, May 21-23.
- Raudenbush, S.W. (2003). Hierarchical Linear Models. Workshop given for the Canadian Research Institute for Social Policy=s (CRISP) Multilevel Data Analysis meeting in Quebec City, Canada, May 4-6.
- Raudenbush, S.W., et al. (2003). AERA Institute on Statistical Analysis for Education Policy. Workshop given at the American Education Research Association, April 25-27, Chicago.
- Raudenbush, S.W. (2003). Applications and extensions of item response models in social science. Given for the Quantitative Methods Project, Survey Research Center at the Institute for Social Research, University of Michigan, March 24.
- Raudenbush, S.W. (2003). HLM: An Introduction. Workshop given for the Department of Epidemiology at Michigan State University, Feb. 14.
- Raudenbush, S.W., and Verbitsky, N. (2002). HLM workshop. Given for the School of Social Work, University of Michigan, December.
- Raudenbush, S.W., and Verbitsky, N. (2002). HLM workshop. Given for the School of Social Work, University of Michigan, September.
- Raudenbush, S.W., and Sayer, A. (2002). Hierarchical data modeling. Workshop sponsored by Scientific Software International, Chicago, August 19-21.
- Raudenbush, S.W. and Sayer, A. (2002). Advanced hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 8-12.
- Sayer, A. and Raudenbush, S.W. (2002). Hierarchical linear models. Inter-university Consortium on Political and Social Research, Boston, MA, June 11-14.
- Raudenbush, S.W. and Bryk, A. (2002). Workshop sponsored by Scientific Software International, Chicago, May 22-24.

- Raudenbush, S.W. et al. (2002). AERA Institute on Statistical Analysis for Education Policy. Workshop given at the American Educational Research Association, April 5-7, New Orleans.
- Raudenbush, S.W. (2002). Hierarchical data modeling. Workshop given for the Canadian Research Institute for Social Policy=s (CRISP) Multilevel Data Analysis meeting. March 24-26 held in Bermuda.
- Raudenbush, S.W. (2001). Hierarchical linear models. Workshop given for the Center for Statistical Consultation and Research, University of Michigan, Ann Arbor, Dec. 12-14.
- Raudenbush, S.W. & Bryk, A. (2001). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, Sept. 19-21.
- Raudenbush, S.W., & Sayer, A. (2001). Hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 9-16.
- Raudenbush, S.W. & Bryk, A. (2001). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, May 16-18.
- Raudenbush, S.W. (2001). Hierarchical linear models. Workshop at the Texas Institute for Measurement, Evaluation, and Statistics; University of Houston. May 9-10, 2001.
- Bryk, A. & Raudenbush, S.W. (2000) (co-directors). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, Sept. 13-15.
- Raudenbush, S.W., & Sayer, A. (2000). Hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 10-16.
- Bryk, A. & Raudenbush, S.W. (1999) (co-directors). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, Nov. 17-19.
- Raudenbush, S.W. (1999). Advanced Multilevel Modeling. Workshop given for Department of Sociology, University of Wisconsin at Madison, Nov. 10.
- Raudenbush, S.W., & Sayer, A. (1999). Hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 12-16.
- Raudenbush, S.W. (1999). Applications of Hierarchical Linear Models. Workshop given for the Center for Statistical Consultation and Research, University of Michigan, Ann Arbor, May 17-19, 1999.
- Bryk, A. & Raudenbush, S.W. (1999) (co-directors). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, May 3-5, 1999.
- Raudenbush, S.W. (1998). Longitudinal data analysis workshop. Center for Disease Control, Atlanta, GA, February 19-20.
- Bryk, A. & Raudenbush, S.W. (1998) (co-directors). Hierarchical data modeling. Workshop co-sponsored by the National Opinion Research Center and Scientific Software International, Chicago, March 25-27.
- Raudenbush, S.W. & Cheong, Y.F. (1998). Applications of hierarchical linear models. A pre-session workshop sponsored by the American Educational Research Association, San Diego, CA, April 11-13.
- Raudenbush, S.W. (1998). Hierarchical linear models. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 6-10.

- Raudenbush, S.W. (1997). Applications of hierarchical linear models. Presented at Northwestern University, May 6.
- Raudenbush, S.W. (1997). Hierarchical linear models for longitudinal data. Workshop for the 1997 Summer Institute on Longitudinal Methods, Pennsylvania State University, May 19.
- Raudenbush, S.W. (1997). Hierarchical linear models: Theory and applications in educational, social and behavioral research. Inter-university Consortium on Political and Social Research, Ann Arbor, MI, July 8-12.
- Raudenbush, S.W. (1997). Hierarchical linear models. A workshop presented at the William T. Grant Foundation Faculty Scholars Meeting, New York, July 18-20.
- Raudenbush, S.W. (1997). Hierarchical linear models. A workshop presented at the American Sociological Association, Toronto, August 8.
- Raudenbush, S.W. (1996). Introduction to HLM. Pennsylvania State University, State College, PA, March 21-22.
- Raudenbush, S.W., & Seltzer, M. (1996). Advanced applications of hierarchical models in educational research co-sponsored by the American Educational Research Association and the National Science Foundation, New York, NY, April 6 -8.
- Raudenbush, S.W., & Bryk, A.S. (1996). Hierarchical linear modeling. Workshop sponsored by the National Opinion Research Center, Chicago, April 23-26.
- Raudenbush, S.W. & Sampson, R. (1996) (co-directors). Comparing coefficients between models with extensions to latent variables and multilevel data. A workshop presented at the American Society of Criminology, November.
- Raudenbush, S.W. (1995). Introduction to HLM. Michigan Educational Research Association, Novi, January 18.
- Raudenbush, S.W. (1995). Hierarchical linear models in epidemiology, clinical trials and developmental research. Duke University Medical Center, Durham, January 24-27.
- Raudenbush, S.W. (1995). Workshop on hierarchical linear models. University of Kansas, Lawrence, May 6-9.
- Raudenbush, S.W. (1995). Workshop on hierarchical linear models. Center for Developmental Science, University of North Carolina, Chapel Hill.
- Raudenbush, S.W., & Shavelson, R. (1995) (co-directors). Institute on statistical analysis for educational policy (co-sponsored by the American Educational Research Association, the National Center for Education Statistics, and the National Science Foundation, San Francisco, April 21-24.
- Raudenbush, S.W. (1995). A mini-course in quantitative methods. Inter-university Consortium on Political and Social Research, Ann Arbor, June 11-16.
- Bryk, A.S., & Raudenbush, S.W. (1995). Applications of hierarchical linear models in social and behavioral research. Workshop sponsored by the National Opinion Research Center, Chicago, July 9-13.
- Raudenbush, S.W. (1994). A mini-course in quantitative methods. Inter-university Consortium on Political and Social Research, Ann Arbor, June 13-20.
- Raudenbush, S.W., & Sedlacek, A. (1994). Policy Analysis Using the National Assessment of Educational Progress. National Center for Educational Statistics, July, 1994.
- Bryk, A.S., & Raudenbush, S.W. (1994). Applications of hierarchical linear models in social and behavioral research. Workshop sponsored by the National Opinion Research Center, Washington, April 22-23.

- MacIver, D., Raudenbush, S.W., & Shavelson, R. (1994) (co-directors). Institute on Statistical Analysis for Educational Policy (co-sponsored by the American Educational Research Association, the National Center for Education Statistics, and the National Science Foundation, New Orleans, April.
- Raudenbush, S.W. (1993). Applications of hierarchical linear models in Social and Behavioral Research. Blalock lecture series, August 9-August 13, 1994.
- Raudenbush, S.W., & Bryk, A.S. (1993). Applications of Hierarchical Linear Models in Psychology. A pre-conference workshop sponsored by Division 5 of the American Psychological Association, Toronto.
- Champagne, A. MacIver, D., Raudenbush, S.W., & Shavelson, R. (1993) (co-directors). Institute on Statistical Analysis for Educational Policy (co-sponsored by the American Educational Research Association, the National Center for Education Statistics, and the National Science Foundation. Atlanta, Georgia.
- Bryk, A.S., & Raudenbush, S.W. (1992). Statistical analysis using hierarchical linear models. A short course sponsored by the American Association for Public Opinion Research, St. Petersburg, Florida, May.
- Champagne, A. MacIver, D., Raudenbush, S.W., & Shavelson, R. (1992) (co-directors). Institute on Statistical Analysis for Educational Policy (co-sponsored by the American Educational Research Association, the National Center for Education Statistics, and the National Science Foundation. San Francisco.
- Raudenbush, S.W. (1992). Statistical analysis using hierarchical linear models. A three-day course sponsored by the Inter-university Consortium on Educational Evaluation, University of Twente, Hengelo, the Netherlands.
- Raudenbush, S.W. (1992). Modeling the effects of educational organizations on individual behavior. A six-week module taught at the Harvard Graduate School of Education, Spring term.
- Raudenbush, S.W. (1992). A short course on hierarchical linear models. Advanced Quantitative Methods Workshop of the National Center for Nursing Research, St. Mary's College, Maryland, July.