

# CURRICULUM VITAE

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## LARRY V. HEDGES Northwestern University

### EDUCATION

Ph.D., Stanford University, 1980  
Mathematical Methods in Educational Research

M.A., Stanford University, 1980  
Statistics

B.A., Magna Cum Laude, University of California, San Diego, 1978  
Mathematics

### HONORS

*Fellow*, American Academy of Arts and Sciences  
*Member*, National Academy of Education  
*Fellow*, American Statistical Association  
*Fellow*, American Psychological Association  
*Fellow*, American Educational Research Association  
*Ingram Olkin Award for Lifetime Contributions to Research Synthesis Methods*, 2007  
*Frederick Mosteller Award for Distinguished Contributions to Research Synthesis*, 2005  
*The Palmer O. Johnson Award*, American Educational Research Association, 2002  
*The Harold E. Mitzel Award for Meritorious Contribution to Education Through Research*, 2002  
*The Review of Research Award*, American Educational Research Association, 1997  
*Member*, The Society for Research Synthesis Methods  
*Member*, Society of Multivariate Experimental Psychology  
American Statistical Association Research Fellow, 1987-1990, 1998  
*California State Fellow*, Stanford University, 1977-1979  
*Provost's Fellow*, University of California, San Diego, 1971-1972  
*Regent's Scholar*, University of California, San Diego, 1970-1973

### EMPLOYMENT

*Board of Trustees Professor*  
Northwestern University  
Department of Statistics, Department of Psychology, Institute for Policy Research, and the  
School of Education and Social Policy

*Stella M. Rowley Distinguished Service Professor* 1/05 - 9/05

*Stella M. Rowley Professor* 1/94 - 2/05

The University of Chicago, Departments of Education, Psychology,  
Sociology, and The Harris Graduate School of Public Policy Studies

*Professor* 10/88 - 12/93

The University of Chicago, Department of Education

*Chairman, Department of Education* 7/88 - 6/91

The University of Chicago

*Associate Professor* 10/84 - 9/88

The University of Chicago, Department of Education

*Associate Professor* 9/85 - 6/86

Michigan State University, College of Education, Department of  
Counseling, Educational Psychology, Special Education

*Assistant Professor* 10/80 - 9/84

The University of Chicago, Department of Education

**EDITORIAL EXPERIENCE**

Co-Editor, *Journal of Research on Educational Effectiveness*, 2007-present  
 Associate Editor, *American Journal of Sociology* 2003-2005  
 Editorial Board, *Psychological Bulletin* 2002-2004  
 Editor, *Journal of Educational and Behavioral Statistics* 1998-2001  
 Editorial Board, *Psychological Method* 1995-2000  
 Editorial Board, *Review of Educational Research* 1996-2001  
 Editorial Board, *New Directions in Program Evaluation* 1991-1995  
 Associate Editor, Quantitative Methods, *Psychological Bulletin* 1986-1989  
 Associate Editor, *Journal of Educational Statistics* 1983-1994  
 Editorial Associate, *The Behavioral and Brain Science* 1984-Present  
 Editorial Board, *Evaluation Studies Review Annual* 1986  
 Consulting Editor, *American Educational Research Journal* 1984-1986

**MEMBERSHIPS**

American Educational Research Association  
 American Psychological Association  
 American Statistical Association  
 American Evaluation Association

**BOOKS & MONOGRAPHS**

Hedges, L. V. & Olkin, I. (1985). *Statistical Methods for Meta-Analysis*. New York: Academic Press.

Hedges, L. V., Shymansky, J. A., & Woodworth, G. (1989). *A Practical Guide to Modern Methods of Meta-Analysis*. Washington, D.C.: National Science Teachers Association.

Cook, T., Cooper, H. M., Cordray, D., Hedges, L. V., Light, R. J., Louis, T., & Mosteller, F. (1991). *Meta-Analysis for Explanation*. New York: The Russell Sage Foundation.

Draper, D., Gaver, D. P., Goel, P. K., Greenhouse, J. B., Hedges, L. V., Morris, C. N., Tucker, J. R., & Waterman, C. (1993). *Combining Information: Statistical Issues and Opportunities for Research*. Washington, D.C.: American Statistical Association.

Cooper, H. M. & Hedges, L. V. (Eds.) (1994). *The Handbook of Research Synthesis*. New York: The Russell Sage Foundation.

Hedges, L. V. & Schneider, B. (Eds.) (2005). *The Social Organization of Schooling*. New York: The Russell Sage Foundation.

Cooper, H. M., Hedges, L. V., & Valentine, J. (Eds.) (2009). *The Handbook of Research Synthesis and meta-analysis (2nd Edition)*. New York: The Russell Sage Foundation.

Borenstein, M., Hedges, L. V., Higgins, J. P. T., & Rothstein, H. R. (2009). *Introduction to meta-analysis*. London: John Wiley.

**PUBLICATIONS**

Hedges, L. V. & Majer, K. (1976). An attempt to improve prediction of college success of minority students by adjusting for high school characteristics. *Educational and Psychological Measurement*, 36, 953-958.

Hedges, L. V. (1978). Personalized introductory courses: A longitudinal study. *American Journal of Physics*, 46, 207-210.

Hedges, L. V. (1980). Unbiased estimation of effect size. *Evaluation in Education: International Progress*, 4, 25-27.

- Calfee, R. C. & Hedges, L. V. (1980). Independent process models of aptitude-treatment interactions. In R. Snow (Ed.), *Aptitudes, Learning, and Instruction: Cognitive Process Models*. Mahwah, NJ: Lawrence Erlbaum.
- Hedges, L. V. & Olkin, I. (1980). Vote counting methods in research synthesis. *Psychological Bulletin*, 88, 359-369.
- Hedges, L. V. (1981). Distribution theory for Glass's estimator of effect size and related estimators. *Journal of Educational Statistics*, 6, 107-128. (Reprinted in S. Gorard (Ed.) *Quantitative Research in Education*. London: Sage Publications, 2008.)
- Hedges, L. V. (1981). Illustrating the results of two-aptitude aptitude-treatment interactions. *American Educational Research Journal*, 18, 57-62.
- Hedges, L. V. & Olkin, I. (1981). The asymptotic distribution of commonality components. *Psychometrika*, 46, 331-336.
- Hedges, L. V. (1982). Fitting continuous models to effect size data. *Journal of Educational Statistics*, 7, 245-270. (Reprinted in R. J. Light (Ed.), *Evaluation Studies Review Annual*, 8. Beverly Hills: Sage Publications, 1983.)
- Hedges, L. V. (1982). Estimation of effect size from a series of independent experiments. *Psychological Bulletin*, 92, 490-499. (Reprinted in R. J. Light (Ed.), *Evaluation Studies Review Annual*, 8. Beverly Hills: Sage Publications, 1983.)
- Hedges, L. V. (1982). Estimation and testing for differences in effect size: A comment on Hsu. *Psychological Bulletin*, 91, 691-693.
- Smith, R. M. & Hedges, L. V. (1982). A comparison likelihood ratio chi-square and Pearsonian chi-square tests of fit in the Rasch model. *Educational Research and Perspectives*, 9, 44-54.
- Hedges, L. V. (1982). Fitting categorical models to effect sizes from a series of experiments. *Journal of Educational Statistics*, 7, 119-137.
- Hedges, L. V. & Olkin, I. (1982). Analyses, reanalyses, and meta-analyses. *Contemporary Education Review*, 1, 157-165.
- Giaconia, R. M. & Hedges, L. V. (1982). Identifying features of effective open education. *Review of Educational Research*, 52, 579-602. (Reprinted in R. J. Light (Ed.), *Evaluation Studies Review Annual*, 8, Beverly Hills: Sage Publications, 1983.)
- Olkin, I. & Hedges, L. V. (1983). An annotated bibliography on statistical methods for incomplete data. Pages 417-478 in I. Olkin (Ed.), *Incomplete Data in Sample Surveys, II*. New York: Academic Press.
- Hedges, L. V. & Stock, W. (1983). The effects of class size: An examination of rival hypotheses. *American Educational Research Journal*, 20, 63-85.
- Hedges, L. V. & Olkin, I. (1983). Regression models in research synthesis. *American Statistician*, 37, 137-140.
- Hedges, L. V. & Olkin, I. (1983). Joint distributions of some indices based on correlation coefficients. Pages 437-454 in S. Karlin, L. A. Goodman, & F. Amemiya (Eds.), *Studies in Econometrics, Time Series, and Multivariate Analysis*. New York: Academic Press.
- Hedges, L. V. & Olkin, I. (1983). Clustering estimates of effect magnitude from independent studies. *Psychological Bulletin*, 93, 563-573.

- Hedges, L. V. (1983). Statistical summaries in research integration. *The Behavioral and Brain Sciences*, 6, 295-296.
- Hedges, L. V. (1983). Combining independent estimators in research synthesis. *British Journal of Mathematical and Statistical Psychology*, 36, 123-131.
- Hedges, L. V. (1983). A random effects model for effect sizes. *Psychological Bulletin*, 93, 388-395.
- Hedges, L. V. & Olkin, I. (1984). Nonparametric estimators of effect size in meta-analysis. *Psychological Bulletin*, 96, 573-580.
- Hedges, L. V. (1984). Research synthesis: The state of the art. *International Journal of Aging and Human Development*, 19, 85-93.
- Hedges, L. V. (1984). Estimation of effect size under nonrandom sampling: The effects of censoring studies yielding statistically insignificant mean differences. *Journal of Educational Statistics*, 9, 61-85.
- Hedges, L. V. (1984). Advances in statistical methods for meta-analysis. Pages 25-42 in P. Wortman & W. H. Yeaton (Eds.), *Issues in Data Synthesis: New Directions in Program Evaluation*, 24. San Francisco: Jossey-Bass. (Reprinted in D. S. Cordray & M. W. Lipsey (Eds.) *Evaluation Studies Review Annual*, II. Beverly Hills: Sage Publications, 1986.)
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- Giaconia, R. M. & Hedges, L. V. (1985). Synthesis of teaching effectiveness research. Pages 5101-5120 in T. Husen & T. N. Postlewaite (Eds.) *International Encyclopedia of Education*. Oxford: Pergamon Press. (Reprinted in M. J. Dunkin (Ed.) *The International Encyclopedia of Teaching and Teacher Education*. Oxford: Pergamon Press.)
- Hedges, L. V. & Olkin, I. (1986). Meta-analysis: A review and a new view. *Educational Researcher*, 15 (8), 14-21.
- Hedges, L. V. (1986). Issues in meta-analysis. Pages 353-398 in E. Z. Rothkopf (Ed.), *Review of Research in Education*. Mahwah, NJ: Lawrence Earlbaum.
- Hedges, L. V. & Becker, B. J. (1986). Statistical methods in the meta-analysis of research on gender differences. Pages 14-50 in J. S. Hyde & M. C. Linn (Eds.) *The Psychology of Gender: Progress through Meta-analysis*. Baltimore: The Johns Hopkins University Press.
- Hedges, L. V. (1987). How hard is hard science, how soft is soft science?: The empirical cumulativeness of research. *American Psychologist*, 42, 443-455.
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- Hedges, L. V. (1987). Commentary on pooling the results of clinical trials. *Statistics in Medicine*, 6, 381-385.
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- Hedges, L. V. (1988). Comments on selection models and the file drawer problem. *Statistical Science*, 3, 118-120.
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- Bradburn, N., Huttenlocher, J., & Hedges, L. V. (1994). Telescoping and temporal memory. Pages 203-215 in N. Schwarz & S. Sudman (Eds.) *Autobiographical Memory and the Validity of Retrospective Reports*. New York: Springer-Verlag.
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- Hedges, L. V., Laine, R. D., & Greenwald, R. (1994). Money does matter somewhere: A reply to Hanushek. *Educational Researcher*, 23(4), 9-10.
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- Hedges, L. V. & Nowell, A. (1995). Sex differences in mental test scores, variability, and numbers of high-scoring individuals. *Science*, *269*, 41-45.
- Hedges, L. V. & Greenwald, R. (1996). Have times changed?: The relation between school resources and student performance. Pages 74-92 in G. Burtless (Ed.) *Does Money Matter? The Link Between School Resources, Student Achievement, and Adult Success*. Washington, DC: The Brookings Institution.
- Hedges, L. V. & Vevea, J. L. (1996). Estimating effect size under publication bias: Small sample properties and robustness of a random effects selection model. *Journal of Educational and Behavioral Statistics*, *21*, 299-332.
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- Greenwald, R., Laine, R.D., & Hedges, L.V. (1996). The school funding controversy: Reality bites. *Educational Leadership*, *53*, 78-79.
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- Hedges, L. V. & Nowell, A. (1998). Black-White test score convergence since 1965. Pages 149-181 in

C. Jencks and M. Phillips (Eds.) *The Black White Test Score Gap*. Washington, DC: The Brookings Institution.

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- Hedges, L. V. & Vevea, J. L. (1998). Fixed and random effects models in meta-analysis. *Psychological Methods, 3*, 486-504.
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- Hedges, L. V. & Nowell, A. (1999). Changes in the Black-White gap in achievement test scores: The evidence from nationally representative samples. *Sociology of Education, 72*, 111-135.
- Nye, B., Hedges, L. V., & Konstantopoulos, S. (1999). The long term effects of small classes: A five year follow-up of the Tennessee class size experiment. *Educational Evaluation and Policy Analysis, 21*, 127-142.
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- Nye, B., Hedges, L. V., & Konstantopoulos, S. (2000). The effects of small classes on achievement: The results of the Tennessee class size experiment. *American Educational Research Journal, 37*, 123-151.
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- Hedges, L. V. (in press). Adjusting a significance test for clustering in designs with two levels of nesting. *Journal of Educational and Behavioral Statistics*.

## CONFERENCE PRESENTATIONS & TECHNICAL REPORTS

Three vote-counting methods for estimating effect size and statistical significance of combined results (with I. Olkin). Annual Meeting of the AERA, San Francisco, 1979.

The asymptotic distribution of estimates used in commonality analysis. Annual Meeting of the Psychometric Society, Monterey, California, 1979.

Path analyses in an experiment on teaching effectiveness: Tests of the influence of teacher characteristics and classroom processes on student outcomes (with J. Crawford & N. Stayrook). Annual Meeting of the American Research Association, San Francisco, 1979.

The empirical evidence on the effectiveness of open education (with R. M. Giaconia and N. L. Gage). Final Report of the Stanford University Research Synthesis Project, vol. II, 1980.

Combining the results of experiments using different scales of measurement. Final Report of the Stanford University Research Synthesis Project, vol. I, 1980.

- Estimation of effect size as a statistical problem. Annual Meeting of the AERA, Los Angeles, 1981.
- Identifying features of effective open education programs (with R. Giaconia). Annual Meeting of the AERA, Los Angeles, 1981.
- Statistical theory for effect size estimation. Annual Meeting of the AERA, Los Angeles, 1981.
- Statistical methodology for meta-analysis. ERIC/TM Report No. 83, 1982.
- Research synthesis, the state of the art. Annual Meeting of the Gerontology Society, Boston, 1982.
- Conceptual aspects of effect size estimation. Annual Meeting of the AERA, New York, 1982.
- Analogue to the analysis of variance for effect size data. Annual Meeting of the AERA, New York, 1982.
- A comparison of likelihood ratio chi-square and Pearsonian chi-square of fit in the Rasch model (with R. Smith). Annual meeting of the AERA, New York, 1982.
- Synthesis of independent research studies: A review. Annual Meeting of the AERA, New York, 1982.
- Asymptotic distribution theory for indices based on correlations. Annual Meeting of the AERA, New Orleans, 1984.
- The state of the art in meta-analysis: Statistical issues. Annual Meeting of the AERA, New Orleans, 1984.
- Evaluation in mathematics education. AMOCO International Conference on Mathematics Education, Chicago, 1985.
- What we have learned about reviewing educational research. Invited Address. Annual Meeting of the American Evaluation Association, Kansas City, 1986.
- Meta-analysis: The first ten years and beyond. Annual Meeting of the American Psychological Association, Washington, D.C., 1986.
- Statistical issues in the meta-analysis of environmental studies. Invited Address. American Statistical Association/ Environmental Protection Agency Conference on Environmental Statistics, Washington, D.C., 1986.
- Meta-analysis: Combining the results of related experiments. Invited Address. Midwest Bio- Pharmaceutical Statistics Meeting, Muncie, Indiana, 1986.
- Improving statistical procedures for validity generalization studies. Invited address. ETS Invitational Conference on Test Validity for the 1990's and Beyond. Princeton, New Jersey, 1986.
- Estimating effect size from vote counts. Annual Meeting of the AERA, San Francisco, 1986.
- Directions for the future of methodology in meta-analysis. National Research Council, Committee on National Statistics Workshop on the Future of Meta-analysis. Hedgesville, West Virginia, 1986.
- Meta-analysis and theory formation. Annual Meeting of the American Psychological Association, Atlanta, 1988.
- Synthesizing correlation matrices (with B. J. Becker). Annual Meeting of the American Educational Research Association, Boston, 1989.

Recent developments in educational statistics. Invited address. Annual Meeting of the American Statistical Association, Washington, D.C., 1989.

Modeling publication selection effects in random effects models in meta-analysis. Invited address. International Meeting of the Institute of Mathematical Statistics, Uppsala, Sweden, 1990.

Combining estimates of effect size over different trials. Invited address. Drug Information Association, Lausanne, Switzerland, 1991.

Combining information across studies to estimate linear models: applications in policy analysis (with B. J. Becker). Invited address. Annual Meeting of the American Statistical Association, Atlanta, 1991.

Detecting and measuring improvements in validity (with B. J. Becker and J. H. Wolfe). Naval Personnel Research and Development Center Technical Report, No. 92-93, 1992.

The synthesis of evaluation research. Invited address. International Conference on Evaluation in Educational Evaluation, Valparaiso, Chile, 1992.

Moving meta-analysis beyond the simple aggregation of experimental studies. Invited address. Annual Meeting of the American Psychological Association, Toronto, 1993.

The role of construct validity in causal generalization. Invited address. Conference called Causality in Crisis? Statistical Methods and the Search for Causal Knowledge in the Social Sciences, Notre Dame, IN, 1993.

The synthesis of evidence about education production functions. Invitational meeting on education production functions, The Brookings Institution, Washington, DC, 1994.

Statistical methods for meta-analysis: Combining information from independent research studies. Invited lecturer, series of lectures. 19th Annual Workshop on Applied Statistics, Brigham Young University, Provo UT, 1994.

Statistical issues and unpublished data. Annual meeting of the American Statistical Association, Orlando, FL, 1995.

Student achievement and background characteristics in the Prospects Study. Annual meeting of the AERA, New York, 1996.

Comments on combining information from different sources. Meeting of the International Biometric Society, Richmond, VA, 1996.

The development and use of meta-analytic methods in the empirical sciences. Annual meeting of the Ecological Society of America, Providence, RI, 1996.

A study of equating in NAEP (with J. L. Vevea). Report of a study commissioned by the NAEP Validity Studies (NVS) Panel, American Institutes for Research, Palo Alto, CA, 1997.

The relation between school resources and student achievement. Annual meeting of the American Association for the Advancement of Science, Philadelphia, 1998.

New directions for psychometric methods. 77<sup>th</sup> meeting of the Committee on National Statistics, Washington, DC, 1998.

Statistical dependence in meta-analysis. Invited paper. North American meeting of the International Biometric Society, Atlanta, Georgia, 1999.

Using converging evidence in policy formation. Keynote address. Second International Conference on Evidence-based Policies and Indicator Systems. Durham, England, 1999.

Is the Black-White achievement gap really closing? Invited address. Third Annual Conference of the Institute of Educational Initiatives, Notre Dame University, 1999.

Statistical dependence in meta-analysis: Conceptual issues and analytic solutions. Invited Address. Annual Meeting of the American Psychological Association, Washington, DC, 2000.

Meta-analysis of diagnostic and screening tests. Invited address. MRC Conference on systematic reviews of observational studies in medicine. Bristol, England, 2000.

Computer use and its relation to academic achievement in mathematics, reading, and writing (with S. Konstantopoulos & A. Thoreson). Report of a study commissioned by the NAEP Validity Studies (NVS) Panel, American Institutes for Research, Palo Alto, CA, 2000.

Synthesizing findings across studies. Invited address. Workshop on Science, Evidence, and Inference in Education, National Research Council, Washington, DC, 2001.

How can survey research contribute to evidence-based policy? Keynote address. Third International Conference on Evidence-Based Policies and Indicator Systems, Durham, England, July, 2001.

The social distribution of academic achievement in America. First annual Frank Bixby Lecture, The Spencer Foundation, Chicago, IL, 2001.

Examining the Effects of School Organization on Student Achievement. Presented at the Second NCES Research Seminar, Instructional Performance Consequences of High Poverty Schooling. Washington, DC, March, 2002.

How Large an Effect Should We Expect From School Reform Programs? Paper presented at the Annual Meeting of the American Educational Research Association. New Orleans, April, 2002.

Contrasting Categories: Boundary Effects on Stimulus Estimation (with Janelle Huttenlocher). Paper presented at the Annual Meeting of the Psychonomic Society. Kansas City, MO, November 2002.

The Culture of Evidence. Keynote address to the National Science Foundation Math-Science Partnership awardee meeting, Washington, DC, January, 2003.

"Scientific research on scaling up educational interventions." Invited address at the annual meeting of the American Educational Research Association, Chicago, April 2003.

"Meta-analysis for Evidence-Based Policy." Keynote address. Fourth International Conference on Evidence-Based Policies and Indicator Systems, London, England, July 2003.

"Designing multilevel studies for assessing the effects of interventions and their variation across contexts." Invited address at the annual meeting of the American Educational Research Association, San Diego, April 13, 2004.

"Designing studies for evidence based scale up in education." Invited address at the annual meeting of the American Educational Research Association, San Diego, April 15, 2004.

"Do post doctoral fellowships affect academic careers: The case of the NAE Spencer fellowships." Invited address at the annual meeting of the American Educational Research Association, San Diego, April 15, 2004.

"Effect sizes in cluster randomized designs." Paper presented at the annual meeting of the Campbell Collaboration, Lisbon, Portugal, February 26, 2005.

"Advanced statistical methods for meta-analysis." Workshop presented at the annual meeting of the Campbell Collaboration, Lisbon, Portugal, February 26, 2005.

"Designs for multilevel studies for assessing intervention effects and the variation of effects across contexts." Paper presented at the annual meeting of the American Educational Research Association, Montreal, April, 2005.

"Overview of effect sizes and why we need them." Paper presented at the National Center for Education Statistics invitational workshop on effect sizes." Washington, DC, June 2005.

"Meta-analysis applied to health psychology." Paper presented at the annual meeting of the American Psychological Association, Washington, DC, August, 2005.

"Recommendations for development studies." Paper presented at the first annual IES Research Conference, Washington, DC, June, 2006.

"Meta-analysis at age 30 (or 102 or 201)." Keynote address given at the Society for Research Synthesis Methods, Cambridge, UK, August 2006.

"The structure of variation of academic achievement." Keynote address to the Interagency Educational Research Initiative, Principal Investigators meeting, Pentagon City, VA, August 2006.

"Power analysis in special education research." Paper presented at the annual IES research Conference. Washington, DC, June 2007.

"Dealing with dependence in meta-analysis." Paper presented at the annual meeting of the Society for Research Synthesis Methods, Evanston, IL, July 2007.

"Effect sizes in cluster randomized designs." Paper presented at the annual meeting of the Association for Policy Analysis and Management, Washington, DC, November 2007.

"Robust standard errors and experimental design." First annual Rand Statistics Lecture at Carnegie Mellon University, Pittsburgh, PA, December, 2007

"Using the instrumental variables technique in educational research." Invited address at the annual IES Research Conference, Washington, DC, June 2008.

"Improving the generalization from meta-analysis." Invited address at the annual meeting of the Society for Research Synthesis Methods, Corfu Greece, July 2008.

"Recent developments in meta-analysis." Invited address at the annual meeting of Conference on Innovations in Trauma Research Methods, Evanston, IL, November 2008.

"New challenges for social surveys." Invited address to the Committee on National Statistics, Irvine, CA, February 2009.

## REFERENCES

Available upon request