

CURRICULUM VITAE

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Education

- 1972 A.B. University of California, Berkeley
Major: Mathematics; Minor: Psychology
Honors: Departmental Scholar; High Honors at Graduation; Phi Beta Kappa
- 1973 M.A. University of California, Berkeley
Major: Mathematics
Honors: Regents Fellowship in Mathematics
- 1976 M.S. University of California, Los Angeles
Major: Public Health
- 1978 Dr.P.H. University of California, Los Angeles
Major: Epidemiology; Minor: Mathematics
Honors: Regents Fellowship in Epidemiology

Professional Positions

- 1973-74 Research Assistant, Department of Statistics, University of California, Berkeley
- 1975-78 Statistician, UCLA School of Nursing and UCLA School of Public Health
- Fall 1978 Assistant Professor of Health Sciences, California State University Northridge
- Winter 1979 Assistant Professor of Biostatistics, Harvard School of Public Health
- Summer-Fall 1979 Assistant Research Epidemiologist, UCLA School of Public Health
- 1980-1984 Assistant Professor of Epidemiology, UCLA School of Public Health
- 1984-1989 Associate Professor of Epidemiology, UCLA School of Public Health
- Fall 1985 Visiting Associate Professor of Biostatistics, University of Sydney School of Public Health

1989-present	Professor of Epidemiology, UCLA School of Public Health (primary appointment)
1995-present	Research Professor of Preventive Medicine, University of Southern California School of Medicine (collaborative appointment)
1999-present	Professor of Statistics, UCLA College of Letters and Science (secondary appointment)

Professional Certifications and Honors

1993: Chartered Statistician and Fellow, Royal Statistical Society

1998: Fellow, American Statistical Association

Memberships

American Statistical Association

Biometric Society

Royal Statistical Society

Society for Epidemiologic Research

Published Articles

1. Greenland, S. (1977). Response and follow-up bias in cohort studies. *American Journal of Epidemiology*, **106**, 184-187.
2. Stern, E., Mischynski, M., Greenland, S., Damus, K. and Coulson, A. H. (1977). "Pap" testing and hysterectomy prevalence: a survey of communities with high and low cervical cancer rates. *American Journal of Epidemiology*, **106**, 295-309.
3. Neutra, R. R., Fienberg, S. E., Greenland, S. and Friedman, E. A. (1978). The effect of fetal monitoring on neonatal death rates. *New England Journal of Medicine*, **299**, 324-326.
4. Haile, R. W., Sullivan, C. B. and Greenland, S. (1978). Multiple sclerosis and dogs: a closer look. *Annals of Neurology*, **4**, 577-578.
5. Greenland, S. (1978). Interaction of nitrites with food, drugs, and contaminants. *Journal of Environmental Health*, **41**, 214-217.
6. Strassburg, M. A., Greenland, S. and Fannin, S. L. (1979). Vaccine failures in the epidemiology and control of measles. *American Journal of Public Health*, **69**, 1055-1057.
7. Strassburg, M. A. and Greenland, S. (1979). Methodologic problems in evaluating the carcinogenic risk potential of environmental agents. *Journal of Environmental Health*, **41**, 214-217.

8. Greenland, S. (1979). Limitations of the logistic analysis of epidemiologic data. *American Journal of Epidemiology*, **110**, 693-698.
9. Strassburg, M. A., Marquard, J., Fannin, S. L. and Greenland, S. (1980). Rubella on a university campus: an evaluation of case immunity histories. *Nursing Research*, **29**, 390-391.
10. Scalzi, C. C., Burke, L. E. and Greenland, S. (1980). Evaluation of an inpatient educational program for coronary patients and families. *Heart and Lung*, **9**, 846-853.
11. Neutra, R. R., Greenland, S. and Friedman, E. A. (1980). The effect of fetal monitoring on cesarean section rates. *Obstetrics and Gynecology*, **55**, 175-180.
12. Rothman, K. J., Greenland, S. and Walker, A. M. (1980). Concepts of interaction. *American Journal of Epidemiology*, **112**, 467-470.
13. Greenland, S., Reisbord, L. S., Haldeman, S. and Buerger, A. A. (1980). Controlled clinical trials of manipulation: a review and a proposal. *Journal of Occupational Medicine*, **22**, 670-676.
14. Greenland, S. and Neutra, R. R. (1980). Control of confounding in the assessment of medical technology. *International Journal of Epidemiology*, **9**, 361-367.
15. Greenland, S. (1980). The effect of misclassification in the presence of covariates. *American Journal of Epidemiology*, **112**, 564-569.
16. Strassburg, M. A., Greenland, S., Marron, J. A. and Mahoney, L. E. (1981). Animal bites: patterns of treatment. *Annals of Emergency Medicine*, **10**, 193-197.
17. Stewart, M. E., Greenland, S. and Hoffman, J. S. (1981). First-aid treatment for poisonous snakebite: are currently recommended procedures justified? *Annals of Emergency Medicine*, **10**, 331-335.
18. Neutra, R. R., Greenland, S. and Friedman, E. A. (1981). The relationship between electronic fetal monitoring and the Apgar score. *American Journal of Obstetrics and Gynecology*, **140**, 440-445.
19. Greenland, S., Watson, E. and Neutra, R. R. (1981). The case-control method in medical care evaluation. *Medical Care*, **19**, 872-878.
20. Greenland, S., Neutra, R. R. and Galan, R. (1981). An attempt at measuring the impact of sanitation and economics on health: a reanalysis of the Colombian National Health Survey. *Public Health*, **95**, 264-272.
21. Greenland, S., Morgenstern, H. and Thomas, D. C. (1981). Considerations in determining matching criteria and stratum sizes for case-control studies. *International Journal of Epidemiology*, **10**, 389-392.

22. Greenland, S. and Criqui, M. H. (1981). Are case-control studies more vulnerable to response bias? *American Journal of Epidemiology*, **114**, 175-177.
23. Greenland, S. and Neutra, R. R. (1981). An analysis of detection bias and proposed corrections in the study of estrogens and endometrial cancer. *Journal of Chronic Diseases*, **34**, 433-438.
24. Greenland, S. (1981). Multivariate estimation of exposure-specific incidence from case-control studies. *Journal of Chronic Diseases*, **34**, 445-453.
25. Hazaleus, R. E., Greenland, S. and Berdischewsky, M. (1982). Injectable cephalosporin use in a community teaching hospital. *American Journal of Hospital Pharmacy*, **39**, 482-483.
26. Greenland, S., Staisch, K. J., Brown, N. and Gross, S. J. (1982). The effects of marijuana use during pregnancy I: a preliminary epidemiologic study. *American Journal of Obstetrics and Gynecology*, **143**, 408-413. Edited version reprinted as "The effect of marijuana on human pregnancy, labor, and delivery", *Neurobiobehavioral Toxicology*, **4**, 447-450 (1982).
27. Greenland, S. and Thomas, D. C. (1982). On the need for the rare disease assumption in case-control studies. *American Journal of Epidemiology*, **116**, 547-553.
28. Greenland, S. (1982). Interpretation and estimation of summary ratios under heterogeneity. *Statistics in Medicine*, **1**, 217-227.
29. Greenland, S. (1982). The effect of misclassification in matched-pair case-control studies. *American Journal of Epidemiology*, **116**, 402-406.
30. Strassburg, M. A., Greenland, S. and Wang, S. M. (1983). A correlational study of neural tube defects and infectious diseases. *Public Health*, **97**, 275-284.
31. Strassburg, M. A., Greenland, S., Portigal, L. D. and Sever, L. E. (1983). A population-based case-control study of anencephalus and spina bifida aperta in a low-risk area. *Developmental Medicine and Child Neurology*, **25**, 632-641.
32. Thomas, D. C. and Greenland, S. (1983). The relative efficiencies of matched and independent sample designs for case-control studies. *Journal of Chronic Diseases*, **36**, 685-697.
33. Strassburg, M. A. and Greenland, S. (1983). Anencephaly and spina bifida aperta: a study of secular trends, seasonality, and geographic distribution in a low-risk area. *Neuroepidemiology*, **2**, 5-15.
34. Greenland, S., Richwald, G. A. and Honda, G. D. (1983). The effects of marijuana use during pregnancy II: a study in a low-risk home-delivery population. *Drug and Alcohol Dependence*, **11**, 359-366.

35. Greenland, S. and Kleinbaum, D. G. (1983). Correcting for misclassification in two-way tables and matched-pair studies. *International Journal of Epidemiology*, **12**, 93-97.
36. Greenland, S. (1983). Tests for interaction in epidemiologic studies: a review and a study of power. *Statistics in Medicine*, **2**, 243-251.
37. Greenland, S. (1984). A counterexample to the test-based principle of setting confidence limits. *American Journal of Epidemiology*, **120**, 4-7.
38. Greenland, S. (1984). Bias in methods for deriving standardized morbidity ratios and attributable fraction estimates. *Statistics in Medicine*, **3**, 131-141.
39. Strassburg, M. A., Greenland, S., Stephenson, T. G., Weiss, B. P., Auerbach, D., Habel, L. A. and Lieb, L. E. (1985). Clinical effectiveness of rubella vaccine in a college population. *Vaccine*, **3**, 109-112.
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42. Greenland, S., Olsen, J., Rachootin, P. and Thomsen-Pederson, G. (1985). The effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section. *Acta Obstetrica et Gynecologica Scandinavica*, **64**, 75-80.
43. Greenland, S. and Robins, J. M. (1985). Confounding and misclassification. *American Journal of Epidemiology*, **122**, 495-506.
44. Greenland, S. and Robins, J. M. (1985). Estimation of a common effect parameter from sparse follow-up data. *Biometrics*, **41**, 55-68.
45. Greenland, S. (1985). Elementary models for biological interaction (invited paper). *Journal of Hazardous Materials*, **10**, 449-454.
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49. Robins, J. M., Breslow, N. E. and Greenland, S. (1986). Estimators of the Mantel-Haenszel variance consistent in both sparse-data and large-stratum limiting models. *Biometrics*, **42**, 311-323.

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53. Greenland, S., Schlesselman, J. J. and Criqui, M. H. (1986). The fallacy of employing standardized regression coefficients and correlations as measures of effect. *American Journal of Epidemiology*, **123**, 203-208.
54. Greenland, S., Thomas, D. C. and Morgenstern, H. (1986). The rare-disease assumption revisited: a critique of "Estimators of relative risk for case-control studies." *American Journal of Epidemiology*, **124**, 869-876.
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56. Greenland, S. (1986). Partial and marginal matching in case-control studies (invited paper). In Moolgavkar, S. H. and Prentice, R. L. (eds.), *Modern Statistical Methods in Chronic Disease Epidemiology*. New York, Wiley, 35-49.
57. Greenland, S. (1986). Adjustment of risk ratios in case-base studies (hybrid epidemiologic designs). *Statistics in Medicine*, **5**, 579-584.
58. Greenland, S. (1986). Estimating variances of standardized estimators in case-control studies and sparse data. *Journal of Chronic Diseases*, **39**, 473-477.
59. Greenland, S. (1987). Interpretation and choice of effect measures in epidemiologic analysis. *American Journal of Epidemiology*, **125**, 761-768.
60. Greenland, S. (1987). Bias in indirectly adjusted comparisons due to taking the total study population as the reference group. *Statistics in Medicine*, **6**, 193-195.
61. Greenland, S. (1987). Quantitative methods in the review of epidemiologic literature. *Epidemiologic Reviews*, **9**, 1-30.
62. Greenland, S. (1987). Interpreting time-related trends in effect estimates. *Journal of Chronic Diseases*, **40**, suppl. 2, 17-24.
63. Greenland, S. (1987). Variance estimators for attributable fraction estimates consistent in both large strata and sparse data. *Statistics in Medicine*, **6**, 701-708.

64. Greenland, S. (1987). Estimation of exposure-specific rates from sparse case-control data. *Journal of Chronic Diseases*, **40**, 1087-1094.
65. Honda, G. D., Bernstein, L., Ross, R. K., Greenland, S., Gerkins, V. and Henderson, B. E. (1988). Vasectomy, cigarette smoking, and age at first sexual intercourse as risk factors for prostate cancer in middle-aged men. *British Journal of Cancer*, **57**, 326-331.
66. Richwald, G. A., Greenland, S., Johnson, B. J., Friedland, J. M., Goldstein, E. J. C. and Plichta, D. T. (1988). An assessment of the excess risk of serious *Salmonella dublin* infection associated with the use of certified raw milk. *Public Health Reports*, **103**, 489-493.
67. Baker, D. B., Greenland, S., Mendlein, J. and Harmon, P. (1988). A health study of two communities near the Stringfellow waste disposal site. *Archives of Environmental Health*, **43**, 325-334.
68. Greenland, S. and Morgenstern, H. (1988). Classification schemes for epidemiologic research designs. *Journal of Clinical Epidemiology*, **41**, 715-716.
69. Greenland, S. and Frerichs, R.R. (1988). On measures and models for the effectiveness of vaccines and vaccination programs. *International Journal of Epidemiology*, **17**, 456-463.
70. Greenland, S. and Poole, C. (1988). Invariants and noninvariants in the concept of interdependent effects. *Scandinavian Journal of Work, Environment, and Health*, **14**, 125-129.
71. Greenland, S. and Mickey, R.M. (1988). Closed-form and dually consistent methods for inference on collapsibility in $2 \times J \times K$ tables. *Applied Statistics*, **37**, 335-343.
72. Greenland, S. and Robins, J.M. (1988). Conceptual problems in the definition and interpretation of attributable fractions. *American Journal of Epidemiology*, **128**, 1185-1197.
73. Greenland, S. (1988). Probability versus Popper: An elaboration of the insufficiency of current Popperian approaches in epidemiologic analysis (invited paper). In Rothman, K.J. (ed.) *Causal Inference*. Chestnut Hill, MA, Epidemiology Resources Incorporated, 95-104.
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75. Greenland, S. (1988). Significance tests versus continuity principles in scientific applications of statistics (invited paper). *1987 Proceedings of the Section on Statistical Education*. Alexandria, VA, American Statistical Association, 57-58.
76. Greenland, S. (1988). Variance estimation for epidemiologic effect estimates under misclassification. *Statistics in Medicine*, **7**, 745-757.

77. Greenland, S. (1988). Statistical uncertainty due to misclassification: implications for validation substudies. *Journal of Clinical Epidemiology*, **41**, 1167-1176.
78. Khoury, M. J., Flanders, W. D., Greenland, S. and Adams, M. J. (1989). On the measurement of susceptibility in epidemiologic studies. *American Journal of Epidemiology*, **129**, 183-190.
79. Kraus, J. F., Greenland, S. and Bulterys, M. G. (1989). Risk factors for sudden infant death syndrome in the U.S. Collaborative Perinatal Project. *International Journal of Epidemiology*, **18**, 113-120.
80. Richwald, G. A., Greenland, S., Gerber, M. M., Potik, R., Kersey, L. and Gallagher, D. M. (1989). Effectiveness of the cavity-rim cervical cap: results of a large clinical study. *Obstetrics and Gynecology*, **74**, 143-148.
81. Mickey, R. M. and Greenland, S. (1989). The impact of confounder selection criteria on effect estimation. *American Journal of Epidemiology*, **129**, 125-137.
82. Robins, J. M. and Greenland, S. (1989). Estimability and estimation of excess and etiologic fractions. *Statistics in Medicine*, **8**, 845-859.
83. Robins, J. M. and Greenland, S. (1989). The probability of causation under a stochastic model for individual risks. *Biometrics*, **46**, 1125-1138. (Erratum: 1991, **48**, 824)
84. Greenland, S. and Morgenstern, H. (1989). What is directionality? *Journal of Clinical Epidemiology*, **42**, 821-824.
85. Greenland, S. and Morgenstern, H. (1989). Ecological bias, confounding, and effect modification. *International Journal of Epidemiology*, **18**, 269-274. (Erratum: 1991, **20**, 824)
86. Greenland, S. (1989). Modeling and variable selection in epidemiologic analysis. *American Journal of Public Health*, **79**, 340-349.
87. Greenland, S. (1989). Cautions in the use of preliminary-test estimators. *Statistics in Medicine*, **8**, 669-673.
88. Greenland, S. (1989). Generalized Mantel-Haenszel estimators for $K \times J$ tables. *Biometrics*, **45**, 183-191.
89. Greenland, S. (1989). On correcting for misclassification in twin studies and other matched-pair studies. *Statistics in Medicine*, **8**, 825-829.
90. Greenland, S. (1989). Reader reaction: Confounding in epidemiologic studies. *Biometrics*, **45**, 1309-1310.

91. Chow, J. M., Yonekura, M. L., Richwald, G. A., Greenland, S., Sweet, R. L. and Schachter, J. (1990). The association between *Chlamydia trachomatis* and ectopic pregnancy: a matched case-control study. *Journal of the American Medical Association*, **263**, 3164-3167.
92. Drews, C., Kraus, J. F. and Greenland, S. (1990). Recall bias in a case-control study of sudden infant death syndrome. *International Journal of Epidemiology*, **19**, 405-411.
93. Savitz, D. A., Greenland, S., Stolley, P. D. and Kelsey, J. L. (1990). Scientific standards of criticism: a response to "Scientific standards in epidemiologic studies of the menace of daily life" by A. R. Feinstein. *Epidemiology*, **1**, 78-83.
94. Bulterys, M. G., Greenland, S. and Kraus, J. F. (1990). Chronic fetal hypoxia and sudden infant death syndrome: Interaction between maternal smoking and low hematocrit during pregnancy. *Pediatrics*, **86**, 535-540.
95. Morgenstern, H. and Greenland, S. (1990). Graphing ratio measures of effect. *Journal of Clinical Epidemiology*, **43**, 539-542.
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97. Greenland, S. and Morgenstern, H. (1990). Matching and efficiency in cohort studies. *American Journal of Epidemiology*, **131**, 151-159.
98. Greenland, S. and Salvani, A. (1990). Bias in the one-step method for pooling study results. *Statistics in Medicine*, **9**, 247-252.
99. Greenland, S. (1990). Randomization, statistics, and causal inference. *Epidemiology*, **1**, 421-429.
100. Robins, J. M. and Greenland, S. (1991). Estimability and estimation of expected years of life lost due to a hazardous exposure. *Statistics in Medicine*, **10**, 79-93.
101. Kass, P. and Greenland, S. (1991). Collapsibility, comparability, and epidemiologic confounding. *Journal of the American Veterinary Medical Association*, **11**, 1569-1573.
102. Flanders, W. D. and Greenland, S. (1991). Analytic methods for two-stage case-control studies and other stratified designs. *Statistics in Medicine*, **10**, 739-747.
103. Greenland, S., Maclure, M., Schlesselman, J. J., Poole, C. and Morgenstern, H. (1991). Standardized regression coefficients: A further critique and a review of alternatives. *Epidemiology*, **2**, 387-392.
104. Greenland, S. and Holland, P. W. (1991). Estimating standardized risk differences from odds ratios. *Biometrics*, **47**, 319-322.

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106. Greenland, S. (1991). Science versus advocacy: The challenge of Dr. Feinstein. *Epidemiology*, **2**, 72-79.
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108. Greenland, S. (1991). Estimating standardized parameters from generalized linear models. *Statistics in Medicine*, **10**, 1069-1074.
109. Greenland, S. (1991). A mathematical analysis of the "epidemiologic necropsy". *Annals of Epidemiology*, **1**, 551-558.
110. Greenland, S. (1991). Reducing mean squared error in the analysis of stratified epidemiologic studies. *Biometrics*, **47**, 773-775.
111. Greenland, S. (1991). On the logical justification of conditional tests for two-by-two-contingency tables. *The American Statistician*, **45**, 248-251.
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113. Brenner, H., Greenland, S. and Savitz, D. A. (1992). The effects of nondifferential confounder misclassification in ecologic studies. *Epidemiology*, **3**, 456-459.
114. Maclure, M. and Greenland, S. (1992). Tests for trend and dose-response: misinterpretations and alternatives. *American Journal of Epidemiology*, **135**, 96-104.
115. Robins, J. M. and Greenland, S. (1992). Identifiability and exchangeability for direct and indirect effects. *Epidemiology*, **3**, 143-155.
116. Greenland, S. and Longnecker, M. P. (1992). Methods for trend estimation from summarized dose-response data, with applications to meta-analysis. *American Journal of Epidemiology*, **135**, 1301-1309.
117. Greenland, S. (1992). A semi-Bayes approach to the analysis of correlated associations, with an application to an occupational cancer-mortality study. *Statistics in Medicine*, **11**, 219-230.
118. Greenland, S. (1992). Likelihood-ratio testing as a diagnostic method for small-sample regressions. *Annals of Epidemiology*, **2**, 311-316.
119. Greenland, S. (1992). Divergent biases in ecologic and individual-level studies. *Statistics in Medicine*, **11**, 1209-1223.

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128. Greenland, S. (1993). Basic problems in interaction assessment (invited paper). *Environmental Health Perspectives*, **101**, Suppl. 4, 59-66.
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132. Greenland, S. (1993). A meta-analysis of coffee, myocardial infarction, and sudden coronary death. *Epidemiology*, **4**, 366-374.
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136. Maldonado, G. and Greenland, S. (1994). A comparison of the performance of model-based confidence intervals when the correct model form is unknown. *Epidemiology*, **5**, 171-182.
137. Robins, J. M. and Greenland, S. (1994). Adjusting for differential rates of prophylaxis therapy for PCP in high- versus low-dose AZT treatment arms in an AIDS randomized trial. *Journal of the American Statistical Association*, **89**, 737-749.
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139. Greenland, S. and Poole, C. (1994). Empirical-Bayes approaches to occupational and environmental hazard surveillance. *Archives of Environmental Health*, **49**, 9-16.
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143. Greenland, S. and Maldonado, G. (1994). The interpretation of multiplicative model parameters as standardized parameters. *Statistics in Medicine*, **13**, 989-999.
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301. Greenland, S., Lanes, S.F., and Jara, M. (2008). Estimating efficacy from randomized trials with discontinuations: The need for intent-to-treat design and g-estimation. *Clinical Trials*, **5**, 5-13.
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304. Greenland, S. (2008). Bayesian interpretation and analysis of research results (invited paper). *Seminars in Hematology*, **45**, 141-149.
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306. [to appear.]

Submitted Articles

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308. Greenland, S. Bayesian bias analysis as a basic tool for observational research.
309. Greenland, S. Bayesian perspectives for epidemiologic research. III. Bias analysis.
310. Greenland, S. Hierarchical models for biases in observational studies.
311. Cain, L.E., Cole, S.R., Greenland, S., Brown, T.T., Chmiel, J.S., Kingsley, L., and Detels, R. Effect of highly active antiretroviral therapy on incident AIDS using calendar period as an instrumental variable.
312. Lauer, J.A., and Greenland, S. Deriving logistic distributions from basic processes.
313. Shinaberger, C.S., Greenland, S., Kopple, J.D., Van Wyck, D., Kovesdy, C.P., and Kalantar-Zadeh, K. Is controlling serum Phosphorus by decreasing protein intake beneficial or harmful in maintenance hemodialysis patients?
314. Gustafson, P., and Greenland, S. Interval estimation for messy observational data.
315. Berthiller, J.P. et al. for the INHANCE Consortium. Marijuana use and the risk of head and neck cancer: pooled analysis in the INHANCE Consortium.
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Books

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2. Rothman, K. J. and Greenland, S. (1998). *Modern Epidemiology*, 2nd ed. Philadelphia: Lippincott-Raven.
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Book Chapters

1. Neutra, R. R. and Greenland, S. (1984). Continuous intrapartum electronic fetal monitoring. Chapter 22 in: Wald, N. (ed.) *Antenatal and Neonatal Screening for Disease*. New York: Oxford University Press, 480-509.
2. Rothman, K. J. and Greenland, S. (1997). Causation and causal inference. Chapter 15 in: Detels, R., Holland, W. W., McEwen, J. and Omenn, G. S. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (3rd ed.). New York: Oxford University Press, 617-629.
3. Greenland, S. (1997). Concepts of validity in epidemiologic research. Chapter 14 in: Detels, R., Holland, W. W., McEwen, J. and Omenn, G. S. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (3rd ed.). New York: Oxford University Press, 597-615.
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8. Rothman, K.J. and Greenland, S. (2005). Basic concepts. Chapter I.1 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 43-88.
9. Pearce, N. and Greenland, S. (2005). Confounding and interaction. Chapter I.9 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 371-397.
10. Greenland, S. (2005). Regression modeling. Chapter II.3 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 625-691.
11. Rothman, K. J., Greenland, S., and Lash, T.L. (2008). Epidemiologic study designs. Chapter 3 in: Rao, C.R., Miller, J.P., and Rao, D.C. (eds.), *Handbook of Statistics*, vol. 27. New York: Elsevier, 64-108.
12. Hoggatt, K.J. and Greenland, S. (2008). Causation and causal inference. Chapter 1 in: Detels, R., McEwen, J., Beaglehole, R., and Heizo Tanaka, H. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (4th ed.). New York: Oxford University Press, in press.
13. [, to appear.]

Grants and Contracts

1. National Institute of Child Health and Human Development: Electronic fetal monitoring and the Apgar Score. Acting Director. 7/1/80 to 11/30/80, \$38,566.
2. Biomedical Research Support Grant: Effects of marijuana use during pregnancy. Principal Investigator. 10/1/81 to 6/30/82, \$ _____
3. Jonsson Cancer Center: Dietary questionnaire for use in studies of diet and cancer. Co-Investigator. 7/1/83 to 6/30/84, \$ _____
4. American Association of Medical Commissioners: Analysis of health risks of raw milk. Co-Principal Investigator. 7/1/83 to 6/30/85, \$ _____
5. State of California Department of Health Services: Riverside environmental study. Co-Principal Investigator. 7/1/84 to 12/31/85, \$44,374.
6. National Cancer Institute: Cancer epidemiology training grant. Co-Director. 7/1/80 to 6/30/85, \$543,720.
7. National Institute of Child Health and Human Development: An epidemiologic analysis of SIDS in a predefined cohort. Co-Principal Investigator. 7/1/84 to 12/31/86, \$56,761.
8. _____ Case-control study of cancer mortality associated with _____ exposure. Co-Principal Investigator. 4/1/85 to 9/30/87, \$ _____

9. University of Lowell Research Foundation: Cancer mortality at _____
Principal Investigator. 10/1/87 to 4/30/90, \$ _____
10. National Center for Health Services Research: A comparative evaluation of methods for confounder selection in nonexperimental evaluation of medical technology. Principal Investigator. 2/1/88 to 7/31/90, \$49,908.
11. _____ Environmental Research Division: Development of occupational injury surveillance methods. Contractor. 1/30/90 to 6/30/92, \$ _____
12. _____, Occupational Research Division: Analysis of occupational injury database. Contractor. 5/1/93 to 12/31/94, \$ _____
13. _____ Estimation of smoking-attributable mortality in the U.S. Contractor. 6/30/94 to 12/31/95, \$ _____
14. Los Angeles County Department of Health Services HIV Epidemiology Program: Back-projection of human immunodeficiency virus incidence. Contractor. 12/1/92 to 12/31/96, \$ _____.
15. Epidemiology Resources: Cross-design synthesis of studies of the transdermal nicotine patch. Contractor. 10/1/95 to 1/31/97, \$ _____.
16. National Highway and Traffic Safety Administration. Pickup-truck occupants: Injuries and policy interventions. Principal Investigator. 9/01/96 to 8/31/97, \$7,119.
17. Electric Power Research Institute: Applying the case-specular method to the Savitz Denver study homes. Contractor. 2/2/96 to 12/31/98, \$ _____
18. National Institute of Environmental Health Sciences: Attributable fraction estimates for EMF exposures. Principal Investigator. 2/01/97 to 1/31/99, \$24,770.
19. Electric Power Research Institute: Full uncertainty assessment of the relation of magnetic fields to childhood leukemia. Contractor. 8/1/01 to 6/30/02, \$ _____
20. Public Health Institute: Assessment of lifetime risk of skin cancer from the use of coal-tar containing shampoos. Contractor. 5/22/00 to 6/30/02, \$ _____
21. National Institute of Mental Health: OCD treatment outcomes beyond phase 3 drug trials. Co-Investigator. 8/1/98 to 7/31/03, \$400,136.
22. Rockefeller Foundation: Development of a clinical assessment scale to predict end-stage dementia. Co-Investigator. 12/1/00-11/30/03, \$ _____
23. National Institute of Mental Health: Risk for psychopathology among lesbians and gay men. Co-Investigator. 9/29/00 to 8/31/03, \$1,344,889.

24. National Institute on Drug Abuse: Marijuana use and the risks of lung and other cancers. Co-Investigator. 4/01/99 to 3/31/04, \$2,084,531.
25. National Cancer Institute: Cancer epidemiology training grant. Program Faculty. 3/15/98 to 12/31/04, \$1,093,496.
26. National Kidney Foundation: Reverse epidemiology in maintenance dialysis patients. Consultant. 7/01/03 to 6/30/06, \$ _____
27. National Institute of Environmental Health Science: Parkinson's disease susceptibility genes and pesticides. Co-Investigator. 9/1/00 to 6/30/06, \$2,149,741.
28. National Institute of Allergy and Infectious Diseases: Interdisciplinary training in HIV/AIDS epidemiology. Program Faculty. 6/1/01 to 9/30/06, \$1,402,705.
29. _____ Estimation of the effects of _____ on chronic obstructive pulmonary disease. Contractor. 7/1/06 to 12/31/08, \$ _____
30. National Institutes of Health/Fogarty: AIDS International training and research program. Program Faculty. 9/30/98 to 5/31/08, \$5,466,575.
31. National Center for Complementary and Alternative Medicine: Mind/brain/body interactions in stress-related disorders. Co-Investigator. 6/30/04 to 6/30/09, \$3,908,516.
32. National Institute of Diabetes Digestive and Kidney Diseases: Examining Racial and Cardiovascular Paradoxes in Chronic Kidney Disease. Consultant. 6/01/2007-5/31/2012, \$875,000.

Miscellaneous Publications

1. Greenland, S. (1986). Review of Miettinen, O. S., "Theoretical Epidemiology". *Journal of the American Medical Association*, **256**, 929-930. Reprinted in *Statistics in Medicine*, **6**, 209-211, 1987.
2. Greenland, S. (1990). Foreword. In Oakes, M., *Statistical Inference*. Epidemiology Resources.
3. Greenland, S. (1991). Contribution to discussion of paper by N. Keiding. *Journal of the Royal Statistical Society, Series A*, **154**, 401-402.
4. Working Group on Recommendations for Reporting Clinical Trials in the Biomedical Literature. (1994). Call for comments on a proposal to improve reporting of clinical trials in the biomedical literature. *Annals of Internal Medicine*, **121**, 895-896.

5. Greenland, S. (1995). Introduction for Rothman, K. J., "Causes". *American Journal of Epidemiology*, **141**, 89.
6. Greenland, S. (1995). Review of Clayton, D., Hills, M. "Statistical Models in Epidemiology". *American Journal of Epidemiology*, **141**, 181-182.
7. Working Group on Recommendations for Reporting of Clinical Trials in the Biomedical Literature. (1996). Checklist of information for inclusion in reports of clinical trials. *Annals of Internal Medicine*, **124**, 741-743.
8. Greenland, S. (1996). Review of Rosenbaum, P. R., "Observational Studies". *Statistics in Medicine*, **15**, 2629-2632.
9. Greenland, S. (1997). Contribution to discussion of paper by J. B. Copas and H. G. Li. *Journal of the Royal Statistical Society, Series B*, **59**, 85.
10. Greenland, S. (1997). Bayes and empirical-Bayes methods for epidemiologic analyses: a commentary and a review of two new books. *American Journal of Epidemiology*, **146**, 367-370.
- 11,12. Rothman, K. J. and Greenland, S. (1998). Articles on Hill's Criteria, Validity and Generalizability. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley. Reprinted in: Gail, M.H. and Benichou, J. (eds.) (2000). *Encyclopedia of Epidemiologic Methods*. New York: Wiley.
13. Greenland, S. and Draper, D. (1998). Article on Exchangeability. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley.
- 14-18. Greenland, S. (1998). Articles on Causation, Collapsibility, Confounding, Identifiability, Target Population. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley. Reprinted in 2nd ed. and in: Gail, M.H. and Benichou, J. (eds.), *Encyclopedia of Epidemiologic Methods*. New York: Wiley.
19. Greenland, S. (2001). Article on Confounding, Confounding Factors. In: Breslow, L. (ed.). *Encyclopedia of Public Health*. New York: MacMillan.
20. Greenland, S. (2002). Article on Control Group. In: El-Shaarawi, A.H. and Piegorsch, W.W. (eds.), *Encyclopedia of Environmetrics*. New York: Wiley.
- 21,22. Greenland, S. (2003). Articles on Confounding, Effect Modification. In: Anderson, N. (ed.). *Encyclopedia of Health and Behavior*. Thousand Oaks, CA: Sage Publications.
23. Greenland, S. (2004). Article on Confounding. In: Lewis-Beck, M., Bryman, A.E. and Liao, T.F. (ed.). *Encyclopedia of Social Science Research Methods*. Oregon, OH: Sage Publications.

24. Greenland, S. (2004). Article on Ecologic Inference. In: Chow, S-C. (ed.), *Encyclopedia of Biopharmaceutical Statistics*, 2nd ed. Arlington, TX: Marcel Dekker.
25. Greenland, S. (2005). Contribution to discussion of J. Copas and S. Eguchi. *Journal of the Royal Statistical Society, Series B*, **67**, 504-505.
26. Greenland, S. (2005). Article on Smoothing Methods in Epidemiology. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*, 2nd ed. New York: Wiley, 4997-5009.
27. Greenland, S. (2005). Contribution to discussion of Prentice, Pettinger, and Anderson. *Biometrics*, **61**, 920-921.
28. Kheifets, L., Mezei, G. and Greenland, S. (2006). Comment concerning "Childhood leukemia and residential magnetic fields: Are pooled analyses more valid than the original studies?" *Bioelectromagnetics*, **27**, 674-675.
29. Greenland, S. (2007). Commentary: On "Quality in epidemiological research: should we be submitting papers before we have the results and submitting more hypothesis generating research?" *International Journal of Epidemiology*, **36**, 944-945.
30. Greenland, S. and Pearl, J. (2007). Article on Causal Diagrams. In: Boslaugh, S. (ed.). *Encyclopedia of Epidemiology*. Thousand Oaks, CA: Sage Publications. Reprinted in: Sereika, S.M. (ed.). *Encyclopedia of Risk Assessment*. New York: John Wiley and Sons.
- 31-33. Greenland, S. (2008). Articles on Causation and Causal Inference, Confounding, Effect Modification and Interaction. In: Boslaugh, S. (ed.). *Encyclopedia of Epidemiology*. Thousand Oaks, CA: Sage Publications.
34. Rothman, K.J., Greenland, S., and Lash, T.L. (2008). Article on Case-Control Studies. In: Sereika, S.M. (ed.). *Encyclopedia of Risk Assessment*. New York: John Wiley and Sons.
- 35-36. Greenland, S. (2008). Articles on Attributable Fraction and Probability of Causation, Effect Modification and Interaction. In: Sereika, S.M. (ed.). *Encyclopedia of Risk Assessment*. New York: John Wiley and Sons.
37. Greenland, S. (2008). Article on Confounding. In: D'Agostino, R.B., Sullivan, L., and Massaro, J. *Encyclopedia of Clinical Trials*. New York: John Wiley and Sons
38. Greenland, S. (2008). Comment: Addressing corporate influence through ethical guidelines. *International Journal of Epidemiology*, **37**, 57-59.
39. Greenland, S. (2008). Contribution to discussion of "Estimates of human immunodeficiency virus prevalence and proportion diagnosed based on Bayesian multiparameter synthesis of surveillance data" by A. Goubar et al. *Journal of the Royal Statistical Society, Series A*, **171**, in press.

Published Letters

1. Neutra, R. R., Friedman, E. A. and Greenland, S. (1978). Fetal monitoring. *New England Journal of Medicine*, **299**, 1371.
2. Greenland, S., Stewart, M. E. and Hoffman, J. R. (1982). Australian work in first-aid for poisonous snakebite. *Annals of Emergency Medicine*, **11**, 108.
3. Kraus, J. F. and Greenland, S. (1983). Survival from spinal cord injury. *Journal of Chronic Diseases*, **36**, 297.
4. Greenland, S., Neutra, R. R. and Staisch, K. J. (1983). The relation of electronic fetal monitoring to infant outcome measures. *American Journal of Epidemiology*, **117**, 637-638.
5. Greenland, S. and Morgenstern, H. (1983). Morgenstern corrects a conceptual error. *Journal of the American Public Health Association*, **73**, 703-704.
6. Greenland, S. (1986). Admission criteria for nonexperimental studies of treatments. *Journal of Chronic Diseases*, **39**, 327.
7. Greenland, S. (1986). Cohorts versus dynamic populations: a dissenting view. *Journal of Chronic Diseases*, **39**, 565-566.
8. Greenland, S., Schlesselman, J. J. and Criqui, M. H. (1987). Re: "The fallacy of employing standard regression coefficients and correlations as measures of effect". *American Journal of Epidemiology*, **125**, 349-350.
9. Greenland, S. and Engelman, L. (1988). Re: "Inferences on odds ratios, relative risks, and risk differences based on standard regression programs". *American Journal of Epidemiology*, **128**, 445.
10. Greenland, S. (1988). The author replies. *American Journal of Epidemiology*, **128**, 1182-1184.
11. Greenland, S., Morgenstern, H., Poole, C. and Robins, J. M. (1989). Re: "Confounding confounding." *American Journal of Epidemiology*, **130**, 1086-1089.
12. Greenland, S. and Mickey, R. M. (1989). Re: "The impact of confounder selection on effect estimation". *American Journal of Epidemiology*, **130**, 1066.
13. Kraus, J. F., Bulterys, M. and Greenland, S. (1990). A nested case-control study of oxytocin and sudden infant death syndrome. *American Journal of Obstetrics and Gynecology*, **162**, 604-605.

14. Greenland, S. and Fairweather, W. F. (1990). Re: "Comparing proportions exposed in case-control studies using several control groups". *American Journal of Epidemiology*, **131**, 944.
15. Greenland, S. and Morgenstern, H. (1990). Letter to Editor. *Internal Journal of Epidemiology*, **19**, 766-767.
16. Greenland, S. (1990). Re: "A method for combining matched and unmatched binary data." *American Journal of Epidemiology*, **132**, 197-198.
17. Greenland, S. (1990). Re: "Those who were wrong". *American Journal of Epidemiology*, **132**, 585-586.
18. Greenland, S. and Morgenstern, H. (1991). Design versus directionality. *Journal of Clinical Epidemiology*, **44**, 211-214.
19. Greenland, S. and Morgenstern, H. (1991). Neither within-region nor cross-regional independence of exposure and covariates prevents ecological bias. *International Journal of Epidemiology*, **20**, 816-817.
20. Greenland, S. (1991). Re: "A simple method to calculate the confidence interval of a standardized mortality rate". *American Journal of Epidemiology*, **133**, 212-213.
21. Greenland, S. (1991). The author replies. *American Journal of Epidemiology*, **133**, 964-965.
22. Greenland, S. and Morgenstern, H. (1992). From Sander Greenland and Hal Morgenstern. *International Journal of Epidemiology*, **21**, 424-425.
23. Greenland, S. and Holland, P. W. (1992). Response. *Biometrics*, **48**, 963-964.
24. Greenland, S. (1992). Author's reply. *Annals of Epidemiology*, **2**, 769-770.
25. Greenland, S. (1992). Author's reply. *Statistics in Medicine*, **11**, 559-560.
26. Greenland, S. (1992). Re: "The bootstrap method for standard errors and confidence intervals of the adjusted attributable risk". *Epidemiology*, **3**, 271.
27. Greenland, S. (1992). Re: "Statistical reasoning in epidemiology". *American Journal of Epidemiology*, **135**, 1186-1187.
28. Greenland, S. (1992). Reply. *The American Statistician*, **46**, 163.
29. Maclure, M. and Greenland, S. (1992). The authors reply. *American Journal of Epidemiology*, **136**, 1173.

30. Greenland, S. (1992). Re: "Falsification in clinical trials". *Statistics in Medicine*, **11**, 1263-1264.
31. Greenland, S. and Robins, J. M. (1993). Re: "Measures of effect based on the sufficient causes model". *Epidemiology*, **4**, 385.
32. Sahl, J.D., Kelsh, M. A. and Greenland, S. (1993). SCE cancer study of electric utility workers: an exchange. *Microwave News*, **13**, 7.
33. Joffe, M. M. and Greenland, S. (1994). Re: "Toward a clearer definition of confounding". *American Journal of Epidemiology*, **139**, 962.
34. Pearce, N. and Greenland, S. (1994). Cumulative incidence and risk. *International Journal of Epidemiology*, **23**, 1105.
35. Greenland, S. (1994). The author replies. *Epidemiology*, **5**, 264.
36. Greenland, S. (1994). Re: "P values, hypothesis tests, and likelihood: implications for epidemiology of a neglected historical debate." *American Journal of Epidemiology*, **140**, 116-117.
37. Weinberg, C. R., Umbach, D. and Greenland, S. (1995). Weinberg et al. reply. *American Journal of Epidemiology*, **142**, 784.
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40. Greenland, S. (1995). Author's reply. *Statistics in Medicine*, **14**, 328-329.
41. Greenland, S. (1995). Dr. Greenland replies. *American Journal of Epidemiology*, **142**, 102-103.
42. Greenland, S. (1995). Dr. Greenland replies. *American Journal of Epidemiology*, **142**, 781-782.
43. Greenland, S. (1995). Re: "Should an expected number of cases be an integer?". *Epidemiology*, **6**, 463.
44. Greenland, S. (1995). The author replies. *American Journal of Epidemiology*, **142**, 1008-1009.
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47. Greenland, S. (1996). The author replies. *Epidemiology*, **7**, 211-212.
48. Greenland, S. (1997). Re: "Estimating relative risk functions in case-control studies using a nonparametric logistic regression". *American Journal of Epidemiology*, **146**, 883-884.
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50. Michels, K. B., Greenland, S. and Rosner, B. A. (1999). The authors reply. *American Journal of Epidemiology*, **149**, 681-682.
51. Greenland, S. (1999). Re: "Comments on a meta-analysis of the relation between dietary calcium intake and blood pressure". *American Journal of Epidemiology*, **149**, 786-787.
52. Greenland, S. (1999). Re: "Confidence limits made easy: interval estimation using a substitution method". *American Journal of Epidemiology*, **149**, 884.
53. Greenland, S. (1999). Re: "Assessing the sensitivity of regression results to unmeasured confounders in observational studies". *Biometrics*, **55**, 990.
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55. Greenland, S. (2001). The first author replies. *American Journal of Epidemiology*, **152**, 688-689.
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60. Greenland, S. (2003). Choosing sensible effect measures for practice and policy. *Journal of Clinical Epidemiology*, **56**, 392-393.
61. Greenland, S., Gago-Domiguez, M., and Castellao, J.E. (2005). The authors reply. *Epidemiology*, **16**, 419.

62. Kaufman, J.S., MacLehose, R.F., Kaufman, S. and Greenland, S. (2005). The mediation proportion. *Epidemiology*, **16**, 710.
63. Hoffman, F.O., Ruttenber, J.A., Greenland, S., and Carroll, R.J. (2006). Radiation exposure and thyroid cancer. *Journal of the American Medical Association*, **296**, 513.
64. Fox, M.P., Lash, T.L., and Greenland, S. (2006). Response to "Dimensional errors of metaphorical measurements: can they be resolved?". *International Journal of Epidemiology*, **35**, 1592-1593.
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126. Greenland, S. (2005). Multiple-bias modeling for analysis of observational data. *Program of the 51st Meeting of the International Biometric Society*, 160.
127. Hoggatt, K.J., Ritz, B. and Greenland, S. (2005). An application of survival analysis methods to the study of infant birthweight. *American Journal of Epidemiology*, **161**, S73.

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131. Hoggatt, K.J., Greenland, S, and Ritz, B. (2006). A two-phase analysis of air pollution and adverse birth outcomes. *Abstracts of the Joint Statistical Meetings*, Session 251, 215-216.
132. Morgenstern, H., Hashibe, M., Cui, Y., Tashkin, D.P., Zhang, Z-F., Cozen, W., Mack, T.M., and Greenland, S. (2006). Marijuana use and the risk of lung and upper-aerodigestive tract cancers. *American Journal of Epidemiology*, **163**, S108.
133. Greenland, S. (2006). Statistics for addressing methodologic issues in epidemiology. *American Journal of Epidemiology*, **163**, S166.
134. Greenland, S. (2006). Bias modeling via missing-data methods. *American Journal of Epidemiology*, **163**, S231.
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136. Arah, O.A., Chiba, Y., and Greenland, S. (2007). Toward a framework for external adjustment for unmeasured confounding. *American Journal of Epidemiology*, **165**, S89.
137. Greenland, S. (2007). Hierarchical models for biases in observational studies. *Abstracts of the Joint Statistical Meetings*, Session 357, 283.

Invited Presentations

1. April 1976, Los Angeles, California: UCLA School of Public Health. "Bias from subject loss in cohort studies."
2. November 1977, Boston, Massachusetts: Harvard School of Public Health. "Regression analysis of matched-pair case-control studies."
3. October 1978, Los Angeles, California: American Public Health Association. "Confounding and the selection of variables for analytic control."

4. October 1980, Montreal, Canada: Department of Epidemiology, McGill University. "Current methodologic issues in epidemiology."
5. October 1980, Detroit, Michigan: American Public Health Association. "Methodologic problems in case-control studies" (roundtable leader).
6. October 1980, Detroit, Michigan: American Public Health Association. "Dose-response considerations in logistic regression."
7. September 1981, Oxford, England: Oxford University. "Why we should abandon the P value as measure of evidence for or against the null hypothesis."
8. November 1981, Los Angeles, California: American Public Health Association. "Issues in determining matching criteria and stratum sizes in case-control studies."
9. February 1982, New Haven, Connecticut: Yale University School of Public Health. "Interpretation of summary measures when interaction present."
10. February 1982, Bethesda, Maryland: USUHS Medical School. "The effects of marijuana use during pregnancy."
11. March 1982, Los Angeles, California: UCLA Cancer Center. "Assessment of synergy."
12. June 1982, Cincinnati, Ohio: Society for Epidemiologic Research. "Interpretation of summary measures when interaction is present."
13. June 1982, San Diego, California: IMS-Biometric Society (WNAR). "Estimation of standardized parameters from multivariate and matched data."
14. August 1982, Ottawa, Canada: University of Ottawa. "A summary of two epidemiologic studies of the effect of marijuana use on labor and delivery."
15. September 1982, Odense, Denmark: Institute for Social Medicine, Odense University. "Internal electronic fetal monitoring: an epidemiologic evaluation of the American experience."
16. September 1982, Rotterdam, The Netherlands: Erasmus University, Department of Epidemiology: "A short course on theory and quantitative methods in epidemiology" (series of 4 lectures).
17. September 1982, Rotterdam, The Netherlands: International Society for Clinical Biostatistics. "Problems of interaction in the planning, analysis, and comparison of clinical studies."
18. October 1982, Albuquerque, New Mexico: University of New Mexico Tumor Registry. "Current methods and problems in analytic epidemiology."

19. October 1982, Albuquerque, New Mexico: University of New Mexico School of Medicine. "The effect of marijuana use on labor and delivery."
20. March 1983, Honolulu, Hawaii: University of Hawaii Cancer Center. "The relationship of confounding to selection bias in case-control studies."
21. February 1984, Loma Linda, California: Loma Linda University, School of Public Health. "Confounding in epidemiologic studies: some recent developments."
22. May 1984, Melbourne, Australia: University of Melbourne. "An evaluation of a home-birth practice."
23. May 1984, Adelaide Australia: Australia-New Zealand Society for Epidemiologic Research National Conference. "A workshop on current developments in design and analysis of epidemiologic studies" (series of 4 lectures).
24. May 1984, Adelaide, Australia: Australia-New Zealand Society for Occupational Medicine National Conference. "Some problems in epidemiologic analysis."
25. May 1984, Adelaide, Australia: Commonwealth Scientific and Industrial Research Organization. "Pitfalls of a statistical modeling in epidemiologic analysis."
26. May 1984, Perth, Australia: National Health and Medical Research Council, University of Western Australia. "Some current developments in epidemiologic methods" (series of 4 lectures).
27. June 1984, Sydney, Australia: Commonwealth Institute of Health, University of Sydney. "Control-initiated case-control studies."
28. June 1984, Newcastle, Australia: Department of Mathematics, University of Newcastle. "Power, sample size, and smallest detectable effect determination in epidemiologic studies."
29. June 1984, Brisbane, Australia: Queensland Institute of Medical Research, University of Queensland. "Evaluating the impact of electronic fetal monitoring."
30. June 1984, Auckland, New Zealand: Department of Community Health, University of Auckland. "Epidemiologic evaluation of medical technology."
31. September 1984, Boston, Massachusetts: Dept. of Epidemiology, Harvard School of Public Health. "Confounding and misclassification."
32. September 1984, Chapel Hill, North Carolina: Dept. of Biostatistics, University of North Carolina. "Recent issues and developments in the estimation of relative risks."

33. October 1984, Seattle, Washington: Department of Epidemiology, University of Washington. "Problems in the detection of confounding when measurement errors are present."
34. October 1984, Seattle, Washington: Dept. of Biostatistics, Fred Hutchison Cancer Research Center. "Power, sample size, and smallest detectable effect determination in multivariate studies."
35. November 1984, Anaheim, California: American Public Health Association. "Confounding, selection bias, and misclassification."
36. November 1984, Albuquerque, New Mexico: University of New Mexico Tumor Registry. "Basic survival analysis: relation to the proportional hazards model."
37. April 1985, Washington, D.C.: National Cancer Institute. "Interpreting time-related trends in effect estimates."
38. April 1985, New York, New York: Division of Epidemiology, Columbia University, School of Public Health. "Interpretation and choice of effect measures in epidemiologic analysis."
39. June 1985, Alta, Utah: Society for Industrial and Applied Mathematics. "Partial and marginal matching in case-control studies."
40. May 1986, Boston, Massachusetts: Department of Population Sciences, Harvard School of Public Health. "Raw milk: a case study of the interplay of science, public health, and politics."
41. May 1986, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Invalidity of some proposed criteria for covariate control."
42. June 1986, Minneapolis, Minnesota: Department of Epidemiology, University of Minnesota School of Public Health. "Entrenched fallacies in epidemiologic statistics."
43. September 1986, Las Vegas, Nevada: American Public Health Association. "The role of significance tests in epidemiologic analysis."
44. April 1987, San Francisco, California: Department of Preventive Medicine, University of California. "Misuses of statistics in causal analysis."
45. August 1987, San Francisco, California: American Statistical Association. "Significance testing versus continuity principles."
46. October 1987, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Confounding versus statistical validity."

47. April 1988, Davis, California: Department of Epidemiology and Preventive Medicine, University of California. "Fallacies in the definition and estimation of attributable fractions."
48. April 1988, Davis, California: Division of Biostatistics, University of California. "Statistical uncertainty due to misclassification: implications for validation substudies."
49. June 1988, Vancouver, British Columbia: Society for Epidemiologic Research. "Open population follow-up as an alternative to a fixed cohort study: implications for validity, efficiency, and generalizability."
50. September 1988, Boston, Massachusetts: Harvard School of Public Health. "Matching and efficiency in cohort studies."
51. April 1989, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. "Structural models and fixed margins in the analysis of two-by-two tables."
52. April 1989, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Randomization, statistics, and causal inference."
53. April 1989, New York, New York: Department of Environmental and Occupational Medicine, Mount Sinai Medical School. "Matching and efficiency in cohort studies."
54. June 1989, Birmingham, Alabama: Society for Epidemiologic Research. "Use of the case-control study design in evaluating preventive interventions."
55. June 1989, Gainesville, Florida: Department of Statistics, University of Florida. "The deduction of fixed margins in the causal analysis of two-by-two tables."
56. June 1989, Atlanta, Georgia: Department of Biostatistics and Epidemiology, Emory University School of Medicine. "Comparability, collapsibility, and confounding: the confusion continues."
57. August 1989, Helsinki, Finland: Department of Epidemiology and Biostatistics, Finnish Institute of Occupational Health. "Empirical Bayes analysis of correlated associations: application to an occupational mortality study."
58. September 1989, Linköping, Sweden: Swedish Council for Planning and Coordination of Research. "Theories of epidemiologic inference."
59. September 1989, Stockholm, Sweden: Department of Epidemiology, Karolinska Institute. "Empirical Bayes analysis of correlated associations application to an occupational mortality study."

60. September 1989, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "A recent history of the concept of confounding."
61. February 1990, New Orleans, Louisiana: American Association for the Advancement of Science. "Meta-analysis of observational studies."
62. April 1990, Los Angeles, California: Department of Preventive Medicine, University of Southern California School of Medicine. "Counterfactual models for causal effects in epidemiology."
63. August 1990, Berkeley, California: Second Annual Meeting of the International Society for Environmental Epidemiology. "Ecologic bias: Current quantitative understanding and directions for future study."
64. November, 1990, Berkeley, California: Department of Statistics, University of California, Berkeley. "Smoothing by a maximal model: an alternative to variable selection."
- 65,66. January 1991, Davis, California: Department of Occupational Health, University of California, Davis. Also Berkeley, California: California State Department of Health. "Summarization, smoothing, and inference in epidemiologic data analysis."
67. February 1991, Ann Arbor, Michigan: Department of Epidemiology, University of Michigan School of Public Health. "Causal inference as a prediction problem."
68. February 1991, Ann Arbor, Michigan: Program in Clinical Research Design and Statistical Analysis. "Summarization, smoothing, and inference in epidemiologic data analysis."
69. April 1991, San Francisco, California: Department of Epidemiology and Biostatistics, University of California, San Francisco. "Smoothing by a maximal model: an alternative to variable selection."
- 70,71. May 1991, Helsinki, Finland: Institute of Occupational Health. Also Aarhus, Denmark: Institute of Social Medicine. "Summarization, smoothing, and inference."
72. August 1991, Atlanta, Georgia: American Statistical Association. "Semi-Bayes methods for screening effects of toxic exposures."
- 73-75. September 1991, Rotterdam, The Netherlands: Erasmus University, Department of Epidemiology and Biostatistics. Series of three lectures: "Summarization, smoothing, and inference"; "Causal inference as a prediction problem"; and "Empirical-Bayes methods for epidemiologic research".
76. October 1991, Albuquerque, New Mexico: Department of Mathematics and Statistics, University of New Mexico. "Empirical-Bayes and Semi-Bayes regression for epidemiologic analyses of multiple exposures: a comparative study."

- 77,78. April 1992, Stanford, California: Division of Epidemiology, Stanford University School of Medicine. Also June 1992, Minneapolis, Minnesota: Division of Epidemiology, University of Minnesota School of Public Health. "The role of statistics in epidemiologic research."
79. June 1992, Corvallis, Oregon: Joint Statistical Meetings of IMS and WNAR. "Causal inference as a prediction problem."
- 80,81. June 1992, Minneapolis, Minnesota: Society for Epidemiologic Research. Also July 1992, Detroit, Michigan: Henry Ford Hospital. "Hierarchical methods in logistic regression analyses of multiple exposures."
82. November 1992, Tokyo, Japan: Institute of Statistical Mathematics. "Causal inference and statistical prediction."
- 83,84. November 1992, Tokyo, Japan: Fourth Japan-US Biostatistics Conference and Institute of Statistical Mathematics. Also May 1993, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Hierarchical regression for epidemiologic analyses of multiple exposures."
85. May 1993, Atlanta, Georgia: International Society for Environmental Epidemiology. "Coping with the inevitable subjectivity of meta-analysis."
- 86,87. May 1993, Gainesville, Florida: Department of Statistics, University of Florida. Also May 1993, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Alternative models for ordinal logistic regression."
88. June 1993, Keystone, Colorado: Society for Epidemiologic Research. "Prospects and pitfalls of meta-analysis."
89. June 1993, Laramie, Wyoming: Institute of Mathematical Statistics and the Biometric Society. "Extensions of the attributable fraction and probability of causation to continuous outcomes."
- 90,91. November 1993, Thousand Oaks, California: American Statistical Association (Southern California Chapter). Also December, 1993, Santa Monica, California: RAND Corporation. "The relative performance of simple methods for handling missing covariates in epidemiologic regression analysis."
- 92,93. February 1994, Boston, Massachusetts: Harvard School of Public Health. Also May 1994, Seattle, Washington: Fred Hutchinson Cancer Research Center. "A study of basic methods for handling missing covariates in epidemiologic regression analyses."
94. May 1994, Seattle, Washington: University of Washington School of Public Health. "Ecologic studies: biases, misconceptions, and counterexamples."

95. January 1995, Sacramento, California: State of California Department of Health Services. "Application of penalized splines to HIV backprojection in L.A. County."
96. January 1995, Davis California: Department of Statistics, University of California. "Iterative reweighting in hierarchical regression for epidemiologic analysis."
- 97-99. March 1995, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. Also April 1995, Milan, Italy: Division of Epidemiology and Biostatistics, European Institute of Oncology, and Bath, England: Department of Statistics, University of Bath. "All models should be as big as a house: Some Savage observations for the new computer age."
100. April 1995, Lyon, International Agency for Research on Cancer. "Principles of Epidemiologic Analysis."
- 101-103. March 1996, Boston Massachusetts: Department of Epidemiology, Harvard School of Public Health. Also New Orleans, Louisiana: Department of Epidemiology and Biostatistics, Tulane University School of Public Health, and Cleveland, Ohio: Department of Epidemiology and Biostatistics, Case-Western University School of Medicine. "Sinning is believing in epidemiology."
- 104,105. March 1996, New Orleans, Louisiana: Department of Epidemiology and Biostatistics, Tulane University School of Public Health. Also Cleveland, Ohio: Department of Epidemiology and Biostatistics, Case-Western University School of Medicine. "Penalized likelihood as a unifying concept for epidemiologic analysis."
106. November 1996, Stanford, California: Division of Biostatistics, Stanford University School of Medicine. "Hierarchical regression as an unifying concept for epidemiologic statistics."
107. May 1997, Atlanta, Georgia: American Statistical Association. "Making use of higher-stage information in epidemiologic analyses."
108. May 1997, Atlanta, Georgia: Centers for Disease Control. "Should all epidemiologic regressions use random coefficients?"
109. July 1997, Santa Fe, New Mexico: Santa Fe Institute. "Causal inference as a prediction problem."
110. August 1997, Anaheim, California: American Statistical Association. "The sensitivity of a sensitivity analysis."
- 111,112. September 1997, Oviedo, Spain: XV National Meeting of the Spanish Society of Epidemiology. "Facing the limits of epidemiology" and "Multilevel modeling as a foundation for epidemiologic analysis."

- 113,114. March 1998, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. Also Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Sinning is believing in epidemiology."
115. June 1998, Chicago, Illinois: Annual Meeting of The Society for Epidemiologic Research. "Lies, damned lies, and meta-analyses."
116. September 1998, Helsinki, Finland: 13th International Symposium on Epidemiology in Occupational Health. "Combining ecologic and individual data: The multilevel approach."
117. September 1998, Glasgow, Scotland: International Conference of the Royal Statistical Society. "Meta-analysis as an emerging meta-disaster."
118. March 1999, New York, New York: Department of Epidemiology, Columbia University School of Public Health. "Principles of multilevel analysis."
119. August 1999, Berkeley, California: School of Public Health, University of California, Berkeley. "Magnetic fields and childhood leukemia."
- 120,121. December 1999, Marrakech, Morocco: World Health Organization Conference on Summary Measures for Population Health. Also February 2000, New York, New York: Department of Epidemiology, Columbia University School of Public Health. "Causality theory for summarization of population health in policy uses of epidemiologic results."
122. February 2000, Chapel Hill, North Carolina: School of Public Health. "Putting prior information into epidemiologic regression analysis."
123. February 2000, Bethesda, Maryland: Food and Drug Administration. "The Bayesian-frequentist fusion: Epidemiologic regression using random coefficients."
- 124,125. February 2000, Washington, D.C.: American Association for Advancement of Science Annual Meeting. Also May 2000, Los Angeles: Marschak Colloquium, UCLA Department of Economics. "Overthrowing the tyranny of the null hypothesis."
126. June 2000, Edmonton, Canada: University of Alberta International Conference on Statistics and Health. "Ecologic bias in estimating ecologic effects."
127. June 2000, Park City, Utah: American Statistical Association Meeting on Radiation and Health. "Why the probability of causation is inappropriate for compensation schemes."
128. July 2000, San Francisco, California: International Biometrics Conference. "Variable selection versus shrinkage in model-based control of confounding."
129. November 2000, Houston, Texas: School of Public Health, University of Texas, Houston. "Multilevel model theory for ecologic analyses."

130. January 2001, Sacramento, California: University of California at Davis Conference in Epidemiology. "Causality theory for policy uses of epidemiologic results."
131. March 2001, Los Angeles, California: Research Conference on Biopolitics, UCLA Center for Governance. "A full Bayesian probability model for epidemiologic research on magnetic fields and childhood leukemia."
132. April 2001, Seattle, Washington: Department of Biostatistics, University of Washington School of Public Health. "Facing the nonidentification problem in epidemiology."
133. June 2001, Toronto, Canada: First National Student Congress, Canadian Society for Epidemiology and Biostatistics. "Incorporating validity concerns into epidemiologic modeling."
134. June 2001, Toronto, Canada: First North American Congress of Epidemiology. "Epidemiology and the Law" (first panel speaker).
135. June 2001, Toronto, Canada: First North American Congress of Epidemiology. "Data say nothing about epidemiologic associations and effects."
136. July 2001, Whistler, British Columbia: Workshop on Selection Bias in Epidemiologic Studies of EMF and Childhood Leukemia. "Bayesian analysis of uncontrolled confounding in the Los Angeles study of wire codes and childhood leukemia."
137. December 2001, Seattle, Washington: Center for Statistics and the Social Sciences, University of Washington. "Data say nothing at all: A plea for honesty in the packaging and practice of statistics."
138. January 2002, Los Angeles, California: Seminar on Statistical Associations and Causal Connections, Statistical Literacy Project. "Epidemiologic and statistical aspects of causal modeling."
139. March 2002, Palo Alto, California: Department of Preventive Medicine, Stanford University School of Medicine. Also Seattle, Washington: School of Nursing, University of Washington. "An introduction to multiple-bias modeling in observational data analysis."
140. March 2002, Seattle, Washington: Department of Biostatistics, University of Washington. "Quantifying biases in causal models: classical confounding versus collider-stratification bias."
141. May 2002, Berkeley, California: Mathematical Sciences Research Institute Symposium on Statistical Challenges for Meta-Analysis of Medical and Health-Policy Data. "The need for multiple-bias modeling in meta-analysis and pooled analysis."

142. June 2002, Los Angeles, California: Joint meeting of the Biometric Society (WNAS) and the Institute of Mathematical Statistics. "We can't learn anything from a sensitivity analysis without a prior for the sensitivity parameters."
143. June 2002, Palm Springs, California: Society for Epidemiologic Research. "Epidemiologists in court, part 2: Further experiences, and proposals for improving practice."
144. August 2002, Montreal, Canada: XVI World Congress of Epidemiology. "Accounting for biases with statistical analyses."
145. February 2003, Denver, Colorado: American Association for Advancement of Science Symposium on Causation in Law, Science, and Everyday Speech. "The chaos of causation: confronting courts with conflicts in concepts and methods for inferring cause and effect."
146. March 2003, San Diego, California: Colloquium on Scientific Inference and Public Policy. "Defending the rights of chemicals?"
147. June 2003, Atlanta, Georgia: Society for Epidemiologic Research. "Bayesian modeling of multiple biases."
148. August 2003, San Francisco, California: Joint Statistical Meeting of the American Statistical Association, the International Biometric Society, and the Institute of Mathematical Statistics. "The need for multiple-bias modeling in observational studies."
149. May 2004, Santa Cruz, California: Department of Applied Mathematics and Statistics, University of California. "Bayesian bias modeling and some useful approximations."
150. May 2004, Berkeley, California: Public Health Institute, University of California, Berkeley. "Meta-analysis and pooled analysis with multiple bias modeling."
151. June 2004, Salt Lake City, Utah: Society for Epidemiologic Research. "Statistics as a hindrance and an aid for inference from nonexperimental data."
152. September 2004, London, England: Department of Epidemiology, London School of Hygiene and Tropical Medicine. "Incorporating bias models into epidemiologic research."
- 153,154. September 2004, Bristol, England: Department of Social Medicine, University of Bristol. Also March 2005, Munich, Germany: Department of Psychology, Max Planck Institute for Psychiatry. "You can and should do Bayes at home: simple and effective Bayesian methods for epidemiologic research."
- 155,156. September 2004, London, England: Department of Statistics, University College. Also March 2005, Jena, Germany: Institute for Psychology, Friedrich Schiller University. "Statistics as an aid and a hindrance to observational research."

- 157,158. September 2004, London, England: Royal Statistical Society. Also March 2005, Halle, Germany: Keynote Address, International Biometric Society, 51st Meeting, Martin Luther University. "Multiple-bias modeling for observational data."
159. June 2005, Toronto, Canada: Society for Epidemiologic Research. "Escaping delusions of grandeur in epidemiology and statistics."
160. August 2005, Minneapolis, Minnesota: American Statistical Association. "Extending likelihood-based algorithms and inference to nonidentified bias models."
- 161, 162. July 2006, Cambridge, Massachusetts: 22nd Conference on Uncertainty in Artificial Intelligence, Massachusetts Institute of Technology. Also Department of Epidemiology, Mailman School of Public Health, Columbia University, New York. "Marginal science: Facing the task of inference about an unobserved margin from an insufficient set of observed margins."
163. February 2007, Montreal, Canada: Department of Epidemiology and Biostatistics, University of Montreal. "Options for multiple exposure variables: State your objective, please."
- 164-166. February 2007, Quebec, Canada: Department of Preventive Medicine, University of Laval, and Portland, Oregon: Department of Public Health and Preventive Medicine, Oregon Health Sciences University. Also May 2007, San Diego, California: University of California. "Postmodern epidemiology: From the holy trinity of validity threats to the unity of graphical and missing-data perspectives."
167. August 2007, Salt Lake City, Utah: American Statistical Association. "Hierarchical models for biases in observational studies."
- 168,169. February 2008, Vancouver, Canada: Department of Statistics, University of British Columbia. Also April 2008, Hannover, Germany: Institute for Biostatistics, Leibniz University. "The need for statistical theory and methods for inference on nonidentified parameters."
- 170-172. March 2008, Erice, Italy: Ettore Majorana Foundation and Centre for Scientific Culture. Series of three lectures on "Biases and effect-measure modification," "Meta-analysis: The study of studies," and "Analysis of quantitative exposures."
173. March 2008, Amsterdam, The Netherlands: Department of Epidemiology, University of Amsterdam. "The inadequacy of standard statistical theory and methods for epidemiologic research."

174. April 2008, Rostock, Germany: Max Planck Institute for Demographic Research. "An overview of developments in longitudinal causal modeling in the health sciences, 1980-2000."

175-178. June-July 2008, _____ Lecture series:
 "Causal models and causal inference in health sciences"; "Causal inference in 'broken trials': The need for intent-to-treat and g-estimation"; "Bayesian perspectives - Part I"; "Bayesian perspectives - Part II - bias in observational studies."

Invited Workshops and Courses

1. May 1991, Hindsø, Denmark: Institute of Social Medicine, University of Aarhus. "Epidemiologic theory and analysis."
2. September 1998, Münster, Germany: Institute for Epidemiology and Social Medicine. "Epidemiologic analysis from a truly Bayesian perspective."
- 3, 4. September 1998, Helsinki, Finland: Institute of Occupational Health. Also March, 1999, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina. "Principles of multilevel analysis."
5. January 2002, Los Angeles, California: Keck Foundation Workshop on Causal Modeling Methods (co-instructor with Judea Pearl).
- 6, 7. June 2003, Atlanta, Georgia, and June 2005, Toronto, Canada: American College of Epidemiology. "Applying quantitative sensitivity analysis to epidemiologic data" (co-instructor).
- 8-11. July-September 2005, Department of Epidemiology, Mailman School of Public Health, Columbia University, New York; Department of Epidemiology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore; Department of Environmental and Occupational Health, University of Minnesota, Minneapolis; and Centre for Public Health Research, Massey University, Wellington, New Zealand. "Bayesian and bias-modeling methods for epidemiologic research."
12. March 2006, 23rd Annual Behavioral Risk Factor Surveillance System Conference (CDC), Palm Springs, California. "Bayesian Perspectives for Epidemiologic Research: I. Rationale and Basic Methods. II. Regression and Bias Modeling."
13. February 2007, Quebec, Canada: Department of Preventive Medicine, University of Laval. "You can and should do Bayes at home, work, and school."
14. March 2008, Bern, Switzerland: Institute for Social and Preventive Medicine, University of Bern. "Practical Bayesian methods for the health sciences."

Contributed Presentations

1. June 1980, Minneapolis, Minnesota: Society for Epidemiologic Research. "Estimating exposure-specific rates from case-control data using Bayes' theorem: extensions to multiple exposure factors."
2. June 1981, Vancouver, British Columbia: Biometric Society (WJAR). "The power of tests for interaction in epidemiologic studies."
3. June 1983, Winnipeg, Manitoba: Society for Epidemiologic Research. "Effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section."
4. June 1985, Chapel Hill, North Carolina: Society for Epidemiologic Research. "The fallacy of employing standardized regression coefficients as measures of biological effect."
5. June 1986, Pittsburgh, Pennsylvania: Society for Epidemiologic Research. "A health study of two communities near the Stringfellow hazardous waste disposal site."
6. June 1986, Pittsburgh, Pennsylvania: Society for Epidemiologic Research. "Identifiability, exchangeability, and epidemiologic confounding."
7. June 1987, Amherst, Massachusetts: Society for Epidemiologic Research. "On the design of studies using confidence intervals."
8. June 1988, Vancouver, British Columbia: Society for Epidemiologic Research. "Validation substudy or validated study?"
9. June 1989, Birmingham, Alabama: Society for Epidemiologic Research. "Matching and efficiency in cohort studies."
10. June 1990, Snowbird, Utah: Society for Epidemiologic Research. "The nonidentifiability of direct and indirect effects."
11. June 1990, Snowbird, Utah: Society for Epidemiologic Research. "A semi-Bayes approach to the analysis of multivariate epidemiologic data, with an application to an occupational cancer-mortality study."
12. August 1990, Los Angeles, California: International Epidemiological Association. "Case-control analyses of site-specific cancer mortality at a large-transformer manufacturing plant."

13. July 1991, Santa Barbara, California: Joint Statistical Meetings of IMS and WNAR. "Modeling risk ratios from incomplete matched-cohort data: an estimating-equation approach."
14. June 1992, Corvallis, Oregon: Joint Statistical Meetings of IMS and WNAR. "Maximum-likelihood estimation of the attributable fraction from logistic models."
15. June 1992, Minneapolis, Minnesota: Society for Epidemiologic Research. "A method for modeling risk ratios from matched-cohort data."
16. June 1993, Laramie, Wyoming: Joint Statistical Meetings of IMS and WNAR. "Alternative models for ordinal logistic regression."
17. June 1994, Los Angeles, California: Joint Statistical Meetings of IMS and WNAR. "A study of basic methods for handling missing covariates in epidemiologic regression analyses."
18. June 1995, Snowbird, Utah: Society for Epidemiologic Research. "Estimation of the causal effect of a time-varying exposure on the marginal mean of a repeated binary outcome."
19. June 1995, Stanford, California: Joint Statistical Meetings of IMS and WNAR. "Historical HIV incidence modeling in regional subgroups: use of flexible discrete models with penalized splines based on prior curves."
20. June 1996, Boston Massachusetts: Society for Epidemiologic Research. "Confounding in case-crossover and case-time-control studies."
21. June 1997, Edmonton, Alberta: Society for Epidemiologic Research. "Characteristics of fluoxetine vs. placebo responders in a randomized trial of geriatric depression."
22. June 1999, Baltimore, Maryland: Society for Epidemiologic Research: "A pooled analysis of magnetic fields, wire codes, and childhood leukemia."
23. June 2000, Seattle, Washington: Society for Epidemiologic Research. "Ecologic bias in estimating ecologic effects."
24. June 2000, Seattle, Washington: Society for Epidemiologic Research. "Bayesian and partial-Bayesian analysis of epidemiologic studies via data augmentation."
25. August 2001, Snowbird, Utah: NCI Causal Inference Conference. "Sensitivity analysis versus Bayesian analysis of uncontrolled confounding."
26. June 2004, Salt Lake City, Utah: Society for Epidemiologic Research. "Monte-Carlo sensitivity analysis and Bayesian analysis of smoking as an unmeasured confounder in a study of silica and lung cancer."

Editorial Activities

- 1982-1986 Associate Editor for *Epidemiology: A Dictionary of Terms* for Oxford University Press
- 1984-1998 Associate Editor, *American Journal of Epidemiology*
- 1985-present Associate Editor, *Statistics in Medicine*
- 1989-2006 Associate Editor, *Epidemiology*
- 2000-present Editorial Advisory Board, *Methodos* Series
- 2004-present Associate Editor, *European Journal of Epidemiology*
- 2007-present Associate Editor for *A Dictionary of Epidemiology* for Oxford University Press

Reviewing Activities

Referee for *American Journal of Epidemiology*, *Epidemiology*, *European Journal of Epidemiology*, *International Journal of Epidemiology*, and *Statistics in Medicine*; occasional referee for the *American Journal of Public Health*, *The American Statistician*, *Annals of Epidemiology*, *Biometrics*, *Biometrika*, *Biostatistics*, *Communications in Statistics*, *Computational Statistics and Data Analysis*, *Controlled Clinical Trials*, *Drug Safety*, *International Statistical Review*, *Journal of the American Medical Association*, *Journal of the American Statistical Association*, *Journal of Clinical Epidemiology*, *The New England Journal of Medicine*, *Risk Analysis*, and the *Scandinavian Journal of Work, Environment, and Health*.

- 1980-1981 Review of textbook, "Case-Control Studies: Design, Conduct, Analysis," for Oxford University Press.
- 1981-1982 Review of textbook, "Epidemiologic Research: Principles and Quantitative Methods," for Lifetime Learning, Inc.
- 1981-1982 Review of textbook, "Principles of Epidemiologic Research," for John Wiley and Sons, Inc.
- 1983-1985 Review of textbook, "Modern Epidemiology," for Little, Brown, Inc.
- 1985 Review of textbook, "Methods in Observational Epidemiology," for Oxford University Press.
- 1987 Review of textbook, "Research Methods in Occupational Epidemiology," for Oxford University Press.

- 1988-89 Review of textbook, "Applied Logistic Regression," for Wiley and Sons, Inc.
- 1993 Review of textbook, "Observational Studies", for Springer-Verlag.
- 1994-1995 Review of textbook, "Methods in Observational Epidemiology" (2nd Ed.), for Oxford University Press.
- 2008 Reviewer for Medical Research Council, United Kingdom
- 2008 Reviewer for Swiss Cancer League

Community and Public Service Activities

- 1980 Consultant (WOS) to Maternal and Child Health Division, Los Angeles County Department of Health Services (Dr. _____)
- 1977-1982 Consultant (WOS) to Acute Communicable Disease Control Division, Los Angeles County Department of Health Services (_____, M.P.H.)
- 1979-1982 Consultant (WOS) to Center for Health Enhancement, Los Angeles (Dr. _____)
- 1982-1986 Consultant (WOS) to Program Evaluation Division, Los Angeles County Department of Health Services (Dr. _____)
- 1986-1989 Consultant (WOS) to Consumer's Union (_____)
- 1986-1989 Consultant (WOS) to Acute Communicable Disease Control Division, Los Angeles County Department of Health Services (Dr. _____)
- 1987-1989 Consultant (WOS) to Center for Community and Preventive Medicine, Charles R. Drew University of Medicine and Science (Dr. _____)
- 1990-1994 Member, Health Effects Institute Working Group on Complex Mixtures (Dr. _____)
- 1994-1995 Member, Working Group on Recommendations for Reporting of Clinical Trials in the Biomedical Literature.
- 1994-1995 Member, International Life Sciences Institute Working Group on Meta-Analysis
- 1994-1997 Member, Health Effects Institute Particle Epidemiology Project Oversight Committee (Dr. _____)
- 1996-1997 Member, FDA Food Advisory Committee Working Group
- 1997-1998 Member, EPA Review Panel on Meta-Analysis of Water Chlorination and Cancer (Dr. Patricia Murphy)

- 1998-1999 Member, Federal Focus Review Panel on Application of the London Principles for Risk Assessment
- 1989-1999 Consultant (WOS) to Sexually Transmitted Disease Division, Los Angeles County Department of Health Services (Dr. _____)
- 1999-2000 Consultant (WOS) to World Health Organization Global Programme on Evidence for Health Policy (Drs. _____ and _____)
- 2000-2001 Consultant, California Birth Defects Monitoring Program, March of Dimes Birth Defects Foundation (Dr. _____)
- 2000-2001 Reviewer, *Surgeon General's Report on Active Smoking and Health*, Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC (Elizabeth Majestic)
- 2000-2006 Consultant, California State Attorney General's Office, Proposition 65 Risk Assessment (Deputy Attorney Generals: Edward Weil and Susan Durbin)
- 2000-2002 Consultant, Environmental Health Investigations Branch, California State Department of Health (Dr. Raymond Neutra)
- 2000-2003 Member, Executive Committee, Society for Epidemiologic Research
- 2004-2005 Member, Epidemiology Without Borders Organizing Committee
- 2004-2005 Member, Committee on Alternate Models to Daubert Standards, National Academy of Sciences
- 2005-2007 Chair, Section in Epidemiology, American Statistical Association
- 2000-present Advisor, American Council on Science and Health
- 2001-present Member, Advisory Committee, Harvard Program on Causal Inference in Epidemiology and Allied Sciences
- 2006-present Member, Drug Safety and Risk Management Advisory Committee, Food and Drug Administration

University Committee Service

- 1980-1982 Research Committee, UCLA School of Public Health
- 1982-1984 Admissions Policy Committee, UCLA School of Public Health
- 1984-1986 Course Approval Committee, UCLA School of Public Health

- 1986-1988 M.P.H. Exam Committee, UCLA School of Public Health
- 1987-1989 Educational Policy and Curriculum Committee, UCLA School of Public Health
- 1989-1991 Equipment Committee, UCLA School of Public Health
- 1991- present Computing Committee, UCLA School of Public Health
- 1980-present Doctoral Examination Committee, Department of Epidemiology, UCLA School of Public Health

Teaching Experience

- 1973-1974 Teaching Assistant, Statistics 2, "Introductory Statistics," University of California, Berkeley
- Winter 1978 Teaching Assistant, Public Health 147, "Principles of Epidemiology," UCLA
- Fall 1978 Instructor, Health Sciences 510C, "Cardiovascular Epidemiology," Cal State University, Northridge
- Spring 1980 Instructor, Health Sciences 592, "Biostatistics for Epidemiologists," Cal State University, Northridge
- Fall 1981 Instructor, Public Health 298B, "Advanced Analytic Epidemiology," UCLA
- 1981-1984 Lecturer, Public Health 114, "Epidemiology I," UCLA
- 1982-1986 Co-Instructor, Public Health 211A, "Epidemiology II," UCLA
- 1980-1986 Co-Instructor, Public Health 211B, "Epidemiology III," UCLA
- 1982-1987 Instructor, Epidemiology 291 (formerly Public Health 221), "Seminar in Epidemiologic Methodology," UCLA
- Summer 1992 Instructor, Epidemiology 737, "Seminar in Statistics in Epidemiology," University of Michigan
- 1982-1997 Instructor, Epidemiology 202A (formerly Public Health 211C), "Epidemiology: Theory and Methodology I," UCLA
- 1988-1997 Instructor, Epidemiology 202B (formerly Public Health 211D), "Epidemiology: Theory and Methodology II," UCLA
- 1980-present Instructor, Epidemiology 292 (formerly Public Health 229), "Advanced Seminar in Epidemiology," UCLA

- 1980-present Instructor, Epidemiology 203 (formerly Public Health 223), "Topics in Theoretical Epidemiology," UCLA
- 1998-present Instructor, Epidemiology 204/Statistics 243, "Logic, Causation, and Probability," UCLA
- 1999-present Instructor, Epidemiology 211/Biostatistics 211, "Statistical Methods in Epidemiology," UCLA
- 2000-present Instructor, Epidemiology 212/Biostatistics 209, "Epidemiologic Regression", UCLA
- 2005-present Instructor, Epidemiology 200C, "Analysis Methods", UCLA

**APPEARS THIS WAY
ON ORIGINAL**