

# Robert E. Weiss, Ph.D.

## Education

- 1989 **Ph.D.**, *Statistics*, University of Minnesota.
- 1987 **M.S.**, *Statistics*, University of Minnesota.
- 1984 **B.Math.**, *Mathematics*, University of Minnesota.

## Academic Appointments

- 2002 to Present Professor, with tenure  
Department of Biostatistics, UCLA School of Public Health
- 1997 to 2002 Associate Professor, with tenure  
Department of Biostatistics, UCLA School of Public Health
- 1990 to 1997 Assistant Professor, tenure track  
Department of Biostatistics, UCLA School of Public Health
- 1985 to Present Statistical Consultant
- January 1989 to June 1990 Postdoctoral Researcher  
Department of Biomathematics, UCLA School of Medicine
- Summer 1985 and 1986 Graduate Student Summer Intern. Rand, Santa Monica California.

## Honors and Awards

- 2003 Fellow, American Statistical Association  
For research in Bayesian model specification, diagnostics, and data analysis; for contributions to longitudinal and hierarchical data modeling; for varied statistical modeling in data applications; and for service to the profession.
- 2002 Deely Award for presentation given at the 7th Valencia International Meeting (Are You My Mother?)
- 1996 Public Health Student Association (PHSA), Department of Biostatistics, Faculty of the Year, 1996.
- 1993-94; 1996-97 UCLA Faculty Career Development Awards, 1 summer ninth each.
- Fall 1984 to Spring 1985 Department of Statistics Fellowship, quarter time.
- Winter 1986 Dissertation Fellowship, Graduate School Tuition Fellowship

July 1987 to June 1988 Dissertation Fellowship, half time.

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## Professional Service

- 2011 to 2013 Section on Bayesian Statistical Science, American Statistical Association: Chair-Elect 2011, Chair 2012, Past Chair 2013.
- 2004 to 2005 Western North American Region of the International Biometric Society. Program Chair-Elect 2004, Program Chair 2005, for Joint Statistical Meetings, American Statistical Association.
- 2000 to 2002 Section on Bayesian Statistical Science: Program Chair-Elect 2000, Program Chair, 2001, for Joint Statistical Meetings, American Statistical Association. Arranged round table sessions for JSM 2000; arranged invited, topic contributed and contributed sessions for JSM 2001; over 100 speakers and 31 sponsored or co-sponsored sessions; arranged student travel awards for 2001 and 2002. Documented tasks involved in being program chair.
- 1997 to 1999 Member, Savage Award Evaluation Committee. Chooses a best Bayesian thesis annually. Duties include evaluating approximately 10 dissertations each year.

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## Editorial Activities

- 2010 to present **Associate Editor**  
Biometrics
- 1994 to 1998 **Associate Editor**  
Evaluation Review
- 1994 to 1998 **Associate Editor**  
Journal of Educational and Behavioral Statistics (JEBS)
- Fall 1988 **Editorial Assistant**  
Linear Models Special Topics Index, Editor-in-Chief: R. D. Cook.

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## Refereeing

Of 193 articles for 50 journals.

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## Book

Weiss, R. E. (2005). Modeling Longitudinal Data. Springer: New York. 432+xxii pages.

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## Peer-Reviewed Publications

102. Gorbach, Pamina M., **Weiss, Robert E.**, Fuchs, Edward, Jeffries, Robin A., Hezerah, Marjan, Brown, Stephen, Voskanian, Alen, Robbie, Edward, Anton, Peter, Cranston, Ross D. (2011). The Slippery Slope: Lubricant Use and Rectal Sexually Transmitted Infections: a Newly Identified Risk. Sexually Transmitted Diseases, to appear.
101. Jilaihawi, Hasan, Chakravarty, Tarun, **Weiss, Robert E.**, Fontana, Gregory P., Forrester, James, Makkar, Raj R. (2011). Meta-analysis of Complications following Transcatheter Aortic Valve Implan-  
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tation. Catheterization and Cardiovascular Interventions, to appear.

100. Cranston, Ross D., Murphy, Ryan, **Weiss, Robert E.**, Da Costa, Maria, Palefsky, Joel, Shoptaw, Steven, and Gorbach, Pamina M. (2011). Anal Human Papillomavirus Infection in a Street Based Sample of HIV-Positive Men. *International Journal of STD and AIDS*, to appear.
99. **Weiss, Robert E.**, Jia, Juan, and Suchard, Marc A. (2011). A Bayesian Model for the Common Effects of Predictors on Mixed Outcomes. *Interface Focus*, to appear.
98. **Weiss, Robert E.**, Comulada, Scott, Rotheram-Borus, Mary Jane. (2011). How do you deal with longitudinal observations on children nested within families? How do you deal with a covariate that changes over time in one group but not another? In J. Bray, W. Pequegnat and the NIMH Consortium on Families and HIV/AIDS. *Statistical Challenges in Studying Complex and Changing Families. AIDS and Behavior*, in press. DOI 10.1007/s10461-011-9881-6
97. Hsia, Renee Y., Asch, Steven M., **Weiss, Robert E.**, Zingmond, David, Liang, Li-Jung, Han, Weijuan, McCreath, Heather, Sun, Benjamin C. (2011). Hospital Determinants of Emergency Department Left Without Being Seen Rates. *Annals of Emergency Medicine*, 58(1), 24–32.e3.
96. Huang, David Y.C., Evans, Elizabeth, Hara, Motoaki, **Weiss, Robert E.**, and Hser, Yih-Ing (2010). Employment Trajectories: Exploring Gender Differences and Impacts of Drug Use. *Journal of Vocational Behavior*, 79,1, 277–289. doi:10.1016/j.jvb.2010.12.001.
95. Ober, Allison J., Iguchi, Martin Y., **Weiss, Robert E.**, Gorbach, Pamina M., Heimer, Robert, Ouellet, Lawrence J., Shoptaw, Steven, Anglin, M. Douglas, Zule, William A. (2010). The Relative Role of Perceived Partner Risks in Promoting Condom Use in a Three-City Sample of High-Risk, Low-Income Women. *Aids & Behavior*, DOI 10.1007/s10461-010-9840-7. PMID: 20976538
94. Cheng, K. G., Ortiz, D. J., **Weiss R. E.**, Shi, L., Ovalle-Bahamon, R. E., Ernesto F., Grillo, and Bing E. G. (2011). Alcohol Consumption Patterns and Predictors of Problem Drinking among Soldiers in Post-Conflict Angola. *Journal of Substance Use*, doi:10.3109/14659891.2010.538462.
93. Gorbach PM, **Weiss RE**, Jeffries R, Javanbakht M, Drumright LN, Daar ES, Little SJ (2011). Behaviors of recently HIV-infected men who have sex with men in the year post-diagnosis: effects of drug use and partner types. *Journal of Acquired Immune Deficiency Syndrome*, 56(2):176-82.
92. Comulada, W. Scott and **Weiss, Robert E.** (2010). Sample Size and Power Calculations for Correlations between Bivariate Longitudinal Data. *Statistics in Medicine*, 29, 2811-2824. PMID: 20827714.
91. Chakravarty, Tarun, White, Anthony J., Buch, Mamta, Naik, Hursh, Doctor, Niraj, Schapira, Jay, Kar, Saibal, Forrester, James S., **Weiss, Robert E.**, Makkar, Raj. (2010). Meta-analysis of Incidence, Clinical Characteristics and Implications of Stent Fracture. *American Journal of Cardiology*, 106, 1075–1080. PMID: 20920641.
90. Hector Sr, Richard D., Anderson, John P., Paul, Rosemarie C. P., **Weiss, Robert E.**, Hays, Ron D., Kaplan, Robert M. (2010). Health state preferences are equivalent in the United States and Trinidad and Tobago. *Quality of Life Research*. PMCID: PMC2874060 PMID: 20237958.
89. Jyrala, Aarne, **Weiss, Robert E.**, Jeffries, Robin A., and Kay, Gregory L. (2010). Effect of Mild Renal Dysfunction (s-crea 1.2-2.2 mg/dl) on Presentation Characteristics, and Short- and Long-Term Outcomes of On-Pump Cardiac Surgery Patients. *Interactive CardioVascular and Thoracic Surgery*. PMID: 20172909.

88. Young, Sean D., Shoptaw, Steven, **Weiss, Robert E.**, Munjas, Brett, and Gorbach, Pamina M. (2011). Predictors of Unrecognized HIV Infection Among Poor and Ethnic Men Who have Sex with Men in Los Angeles. *Aids and Behavior*, 15, 643–649. DOI: 10.1007/s10461-009-9653-8. PMID: 20043200.
87. **Weiss, Robert E.** and Wang, Yan (2009). Experimental Design and Sample Size Computations for Longitudinal Models. *Frontiers of Statistical Decision Making and Bayesian Analysis — In honor of James O. Berger*. Co-Editors: Ming-Hui Chen, Dipak K. Dey, Peter Mueller, Dongchu Sun, and Keying Ye. Springer. pp. 270–276.
86. Rotheram-Borus, Mary-Jane, Rhodes, Fen, Desmond, Katherine A., **Weiss, Robert E.** (2009). Reducing HIV Risks among Active Injection Drug and Crack Users: The Safety Counts Program. *AIDS and Behavior*, 14(3): 658–668. PMID: 19757019, PMCID: PMC2865646
85. Comulada, W. Scott, Rotheram-Borus, Mary Jane, Pequegnat, Willo, **Weiss, Robert E.**, Desmond, Katherine A., Arnold, Elizabeth Mayfield, Remien, Robert H., Morin, Stephen F., Weinhardt, Lance S., Johnson, Mallory O. and Chesney, Margaret A. (2010). Relationships over Time between Mental Health Symptoms and Transmission Risk Among Persons Living with HIV. *Psychology of Addictive Behaviors*, 24, 109–118. PMID: 20307117 PMCID: PMC2845324
84. Liang, Li-Jung, **Weiss, Robert E.**, Redelings, Benjamin and Suchard, Marc A. (2009). Improving Phylogenetic Analyses by Incorporating Additional Information from Genetic Sequence Databases. *Bioinformatics*, 25, 2530–2536. PMID: 19661240 PMCID: PMC2800350
83. Naik, Hursh, Anthony J. White, Tarun Chakravarty, James Forrester, G. Fontana, Saibal Kar, Prediman K. Shah, **Robert E. Weiss**, and Raj Makkar (2009). A meta-analysis of 3773 patients treated with percutaneous coronary intervention or surgery for unprotected left main coronary artery stenosis. *Journal of the American College of Cardiology: Cardiovascular Interventions Online*. 2(8), 739–47. PMID: 19695542
82. Gorbach, Pamina M., Murphy, Ryan, **Weiss, Robert E.**, Hucks-Ortiz, Christopher, and Shoptaw, Steven (2009). Bridging Sexual Boundaries: Bisexual Men in a Street Based Sample in Los Angeles. *Journal of Urban Health*, 86, S63–S76. PMID: 19543837 PMCID: PMC2705489
81. Shoptaw, Steven, **Weiss, Robert E.**, Munjas, Brett, Hucks-Ortiz, Christopher, Larkins, Sherry , Victorianne, Gregory and Gorbach, Pamina M. (2009). Homonegativity, Substance Use, Sexual Risk Behaviors and HIV-Status in Poor and Ethnic Men Who Have Sex With Men in Los Angeles. *Journal of Urban Health*, 86, S77–S92. PMID: 19526346, PMCID: PMC2705491.
80. Alber, Susan A. and **Weiss, Robert E.** (2009). A Model Selection Approach to the Analysis of Variance. *Statistics in Medicine*, 28, 1821–1840. PMID: 19387975
79. Jia, Juan and **Weiss, Robert E.** (2009). Outcome Clustering: Modeling the Common Effects of Predictors on Multiple Longitudinal Outcomes. *Statistics in Medicine*, 28, 1793–1804. PMID: 19360840
78. Ober, Allison, Shoptaw, Steve, Wang, Pin-Chieh, Gorbach, Pamina, and **Weiss, Robert** (2009). Factors Associated with Event-Level Stimulant Use during Sex In a Sample of Low-Income Men Who Have Sex with Men in Los Angeles. *Drug and Alcohol Dependence*, 102, 123–129. PMID: 19327917, PMCID: PMC2751657
77. Lester, Patricia, **Weiss, Robert E.**, Rice, Eric, Comulada, Scott, Lord, Lynwood, Alber, Susan and Rotheram-Borus, M. J. (2009). The Longitudinal Impact of HIV+ Parents' Drug Use on their  
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Adolescent Children. *American Journal of Orthopsychiatry*, 79, 51–59. PMID: 19290725 PMCID: PMC2843584

76. Constance A. Gewa, **Robert Weiss**, Nimrod O.Bwibo, Marian Sigman, Shannon Whaley, Suzanne P. Murphy, Gail Harrison, and Charlotte G. Neumann (2008). Dietary micronutrients are associated with higher cognitive function gains among primary school children in rural Kenya. *British Journal of Nutrition*, 101, 1378–87. PMID: 18826659
75. Wu, N., Lester, P., Jiang, L., **Weiss, R.**, Slocum, S. and Rotheram-Borus, M.J. (2011). Substance Use Among Adolescents of Parents Living with HIV in New York City. *Substance Use and Misuse*, to appear. doi:10.3109/10826084.2010.538262
74. Freisthler, Bridget and **Weiss, Robert E.** (2008). Using Bayesian Space-Time Models to Understand the Substance Use Environment and Risk for Being Referred to Child Protective Services. *Substance Use & Misuse*, 43, 239–251. PMID: 18205090
73. Micheletti, Robert G., Fishbein, Gregory A., Fishbein, Michael C., Singer, Elyse J., **Weiss, Robert E.**, Jeffries, Robin A., Currier, Judith S. (2009). Coronary Atherosclerotic Lesions in human immunodeficiency virus-infected Patients: A Histopathologic Study. *Cardiovascular Pathology*, 18, 28–36. PMID: 18402832
72. Bing, E.G., Cheng, K.G., Ortiz, D.J., Ovalle-Bahamón, R.E., Ernesto, F., **Weiss, R.E.**, and Boyer, C.B. (2008). Evaluation of a Prevention Intervention to Reduce HIV Risk among Angolan Soldiers. *AIDS & Behavior*, 12, 384–395. PMID: 18324469, PMCID: PMC2822543
71. Bursch, Brenda, Lester, Patricia, Jiang, Luohua, Rotheram-Borus, Mary Jane, and **Weiss, Robert** (2008). Psychosocial predictors of somatic symptoms in adolescents of parents with HIV: a six-year longitudinal study. *AIDS Care*, 20, 667–676. PMID: 18576168
70. Solorio, M. Rosa, Rosenthal, Doreen, Milburn, Norweeta G., **Weiss, Robert E.**, Batterham, Philip J., Gandara, Marla and Rotheram-Borus, Mary Jane (2008). Predictors of sexual risk behaviors among newly homeless youth: A longitudinal study. *Journal of Adolescent Health*, 42, 401–409. PMID: 18346666 PMCID: PMC2346582.
69. Hector, Richard D., Anderson, John P., Paul, Rosemarie C.P., Ponce, Ninez, Hays, Ron D., **Weiss, Robert E.**, Kaplan, Robert M. (2008). Evaluation of the Validity of the Quality of Well-being Scale in Trinidad and Tobago. *West Indian Medical Journal*, 57, 135–140.
68. Goldstein, Iris B., Shapiro, David and **Weiss, Robert E.** (2008). How Family History and Risk Factors for Hypertension Relate to Ambulatory Blood Pressure in Healthy Adults. *Journal of Hypertension*, 26, 276–283. PMID: 18192842
67. Comulada, W. Scott, **Weiss, Robert E.**, Cumberland, William, and Rotheram-Borus, Mary Jane (2007). Reductions in Drug Use among Young People Living with HIV. *American Journal of Drug and Alcohol Abuse*, 33, 493–501. PMID: 17613977 PMCID: PMC2819808
66. The Healthy Living Project Team (2007). Effects of a behavioral intervention to reduce risk of transmission among people living with HIV: The Healthy Living Project randomized controlled study. *JAIDS*, 44, 213–221. PMID: 17146375
65. Guo, Hua, **Weiss, Robert E.**, Gu, Xun and Suchard, Marc A. (2007). Time Squared: Repeated Measures on Phylogenies. *Molecular Biology and Evolution*, 24, 352–362. PMID: 17079699

64. Liang, Li-Jung and **Weiss, Robert E.** (2007). Importance Re-Weighting within Gibbs for Large Data Analyses with Application to Bayesian Phylogenetic Analyses. *Biometrics*, 63, 733–741. PMID: 17825006
63. Comulada, W. S. and **Weiss, R. E.** (2007). On Models for Binomial Data with Random Numbers of Trials. *Biometrics*, 63, 610–617. PMID: 17688514, PMCID: PMC2843591
62. Sigman, M., Whaley, S. E., Neumann, C., Bwibo, N., Guthrie, D., **Weiss, R. E.**, Liang, L.-J. and Murphy, S. P. (2005). Diet Quality Impacts the Playground Activities of Kenyan Children. *Food and Nutrition Bulletin*, 26(2 Suppl 2):S202–12. PMID: 16075570
61. Marshall, J.M. and **Weiss, R. E.** (2006). A Bayesian Heterogeneous Analysis of Variance Approach to Inferring Recent Selective Sweeps. *Genetics*, 173, 2357–2370. PMID: 16751672 PMCID: PMC1569732.
60. Kitchen, C. M. R., **Weiss, R. E.**, Liu, G. and Wrin, T. (2007). HIV-1 viral fitness estimation using exchangeable on subsets priors and prior model selection. *Statistics in Medicine*, 26, 975–990. PMID: 16755527
59. Chan, K. S., Bird, C. E., **Weiss, R.**, Duan, N., Meredith, L. S., and Sherbourne, C. D. (2006). Does Physician-Patient Gender Concordance Affect Mental Health Care Received by Primary Care Patients with Major Depression? *Women's Health Issues*, 16, 122–132. PMID: 16765288
58. Gorbach, P. M., Sopheab, H., Chhorvann, C., **Weiss, R. E.**, and Vun, M. C. (2006). Changing Behaviors and Patterns Among Cambodian Sex Workers: 1997–2003. *JAIDS*, 42(2):242–247. PMID: 16639348
57. Solorio, M. R., Milburn, N. G., **Weiss, R. E.**, and Batterham, P. J. (2006). Newly Homeless Youth STD Testing Patterns Over Time. *Journal of Adolescent Health*, 39, 443.e9–443.e16. PMID: 16919810
56. Ottaviani, C., Shapiro, D., Goldstein, I. B., James, J. E., and **Weiss, R. E.** (2006). Hemodynamic Profile, Compensation Deficit, and Ambulatory Blood Pressure. *Psychophysiology*, 43, 46–56.
55. Sun, B.C., Mohanty, S. A., **Weiss, R. E.**, Tadeo, R., Hausbrouk, M., Koenig, W., Meyer, C., Asch, S. (2005). Effects of Hospital Closures on Emergency Department Ambulance Diversion, Los Angeles County 1998–2004. *Annals of Emergency Medicine*, 47, 309–316. PMID: 16546614
54. Collins, M.D., Eckhoff, Ch., **Weiss, R.**, Resnick, E., Nau, H. and Scott, Jr., W.J. (2006). Differential teratogenesis of all-trans-retinoic acid in SWV and C57BL/6N mice administered at gestational day 9.5: Emphasis on limb dysmorphology. *Birth Defects Research (Part A)*, 76, 96–106. PMID: 16463421
53. Swendeman, D., Rotheram-Borus, M. J., Comulada, S., **Weiss, R. E.** and Ramos, M. E. (2005). Predictors of HIV-related stigma among young people living with HIV. *Health Psychology*, 25, 501–509. PMID: 16846325 PMCID: PMC2392891.
52. Grillenberger, M., Neumann C. G., Murphy S. P., Bwibo N. O., **Weiss R. E.**, Jiang L., Hautvast, J. G. A. J., West, C. E. (2006). Intake of micronutrients high in animal source foods is associated with better growth in rural Kenyan schoolchildren. *British Journal of Nutrition*, 95, 379–390. PMID: 16469157
51. Suchard, M. A., **Weiss, R. E.**, and Sinsheimer, J. S. (2005). Models for Estimating Bayes Factors with Applications to Phylogeny and Tests of Monophyly. *Biometrics*, 61, 665 – 673. PMID: 16135017

50. Rotheram-Borus, M. J., **Weiss, R.**, Alber, S., and Lester, P. (2005). Adolescent Adjustment Before and After HIV-related Parental Death. *Journal of Consulting and Clinical Psychology*, 73, 221 – 228.
49. Lightfoot, M., Swendeman, D., Rotheram-Borus, M. J., Comulada, S. and **Weiss, R. E.** (2005). Variation in the Risk Behaviors of Youth Living with HIV: Pre- and Post-HAART. *American Journal of Health Behavior*, 29, 162–71. PMID: 15698983 PMCID: PMC2843582
48. Rotheram-Borus, M. J., Swendeman, D., Comulada, S. **Weiss, R. E.**, and Lightfoot, M. (2004). Prevention for Substance Using HIV Positive Young People: Telephone and In-person Delivery. *JAIDS*, 37, S68 – S77. PMID: 15385902 PMCID: PMC2843590
47. Sherbourne, C.D., **Weiss, R. E.**, Duan, N., Bird, C. E., Wells, K. B. (2004). Do the Effects of Quality Improvement for Depression Care Differ for Men and Women? Results of a Group-Level Randomized Controlled Trial. *Medical Care*, 42, 1186 – 1193.
46. Basu, I., Jana, S., Rotheram-Borus, M. J., Swendeman, D., Das, S., Lee, S. J., Newman, P., and **Weiss, R.** (2004). HIV Prevention among Sex Workers in India. *JAIDS*, 36, 845 – 852. PMID: 15213569 PMCID: PMC2826108
45. Sinsheimer, J.S., Suchard, M. A., Dorman, K. S., Fang, F., and **Weiss R.E.** (2003). Are You My Mother? Bayesian Phylogenetic Inference of Recombination Among Putative Parental Strains. *Applied Bioinformatics*, 2, 131 – 144. PMID: 15130798
44. Neumann, C., Bwibo, N. O., Murphy, S. P., Sigman, M., Whaley, S. E., Allen, L. H., Guthrie, D., **Weiss, R. E.**, and Montague, W. (2003). Animal Source Foods Improve Dietary Quality, Micronutrient Status, Growth and Cognitive Function in Kenyan School Children: Background, Study Design and Baseline Findings. *Journal of Nutrition*, 133, 3941S – 3949S. PMID: 14672294
43. Whaley, S. E., Sigman, M., Neumann, C., Bwibo, N., Guthrie, D., **Weiss, R. E.**, Alber S. and Murphy, S. P. (2003). The Impact of Dietary Intervention on the Cognitive Development of Kenyan Schoolchildren. *Journal of Nutrition*, 133, 3965S – 3971S. PMID: 14672297
42. Newman, P. A., Rhodes, F., and **Weiss, R. E.** (2004). Correlates of Sex Trading Among Men who have Sex with Men. *American Journal of Public Health*, 94, 1998 – 2003. PMID: 15514243 PMCID: PMC1448575.
41. Ye, Zhishen, and **Weiss, R. E.** (2003). Using the Bootstrap to Select One of a New Class of Dimension Reduction Methods. *JASA*, 98, 968 – 979.
40. Suchard, M. A., Kitchen, C. M. R., Sinsheimer, J. S. and **Weiss R. E.** (2003). Hierarchical Phylogenetic Models for Analyzing Multipartite Sequence Data. *Systematic Biology*, 52, 649 – 664. PMID: 14530132
39. Suchard, M. A., **Weiss, R. E.**, Sinsheimer, J. S., Dorman, K., Patel, M. and McCabe, E. (2003). Evolutionary Similarity Among Genes. *JASA*, 98, 653–662.
38. Suchard, M. A., **Weiss, R. E.**, Dorman, K.S., and Sinsheimer J. S. (2003). Inferring Spatial Phylogenetic Variation Along Nucleotide Sequences: A Multiple Change-Point Model. *JASA*, 98, 427 – 437.
37. Comulada, W. S., Swendeman, D. T., Rotheram-Borus, M. J., Mattes, K. M. and **Weiss R. E.** (2003). Use of HAART Among Young People Living with HIV. *American Journal of Health Behavior*, 27, 389–400. PMID: 12882433, PMCID: PMC2819811

36. Ansell, B. J., Watson, K. E., **Weiss, R. E.**, Fonarow, G. C. (2003). hsCRP and HDL Effects of Statins Trial (CHEST): Rapid Effect of Statin Therapy on C-Reactive Protein and High-Density Lipoprotein Levels A Clinical Investigation. *Heart Disease*, 5, 2–7. PMID: 12549983
35. **Weiss, R. E.**, Basu, S., and Marshall, C. R. (2003). A Framework for Analyzing Fossil Record Data. In *Tools for Constructing Chronologies: crossing disciplinary boundaries*, Buck, CE and Millard, AR eds., Springer-Verlag, London, 213–230.
34. Suchard Marc A., **Weiss Robert E.**, and Sinsheimer Janet S. (2003). Testing a Molecular Clock without an Outgroup: Derivations of Induced Priors on Branch-Length Restrictions in a Bayesian Framework. *Systematic Biology*, 52, 48–54. PMID: 12554439
33. Lester, P., Chesney, M., Cooke, M., **Weiss, R.**, Whalley, P., Perez, B., Glidden, D., Petru, A., Dorenbaum, A., and Wara, D. (2002). When the Time Comes to Talk about HIV: Factors Associated with Diagnostic Disclosure and Emotional Distress in HIV-Infected Children. *JAIDS*, 31, 309–317.
32. Suchard, M. A., **Weiss, R. E.**, Dorman, K. S., Sinsheimer, J. S. (2002). Oh Brother, Where Art Thou? A Bayes Factor Test for Recombination with Uncertain Heritage. *Systematic Biology*, 51, 715–728. PMID: 12396586 (Recipient: Publisher’s Award for best Systematic Biology paper authored by a student in the year 2002.)
31. Berk, R. A., Fovell, R. G., Schoenberg, F. and **Weiss, R. E.** (2001). The Use of Statistical Tools for Evaluating Computer Simulations – An Editorial Essay. *Climatic Change*, 51, 119–130.
30. Chen, M.-H., Ibrahim, J. G., Shao, Q.-M., and **Weiss, R. E.** (2003). Prior Elicitation for Model Selection and Estimation in Generalized Linear Mixed Models. *JSPI*, 111, 57–76.
29. Machado, AF, Zimmerman, EF, Hovland Jr DN, **Weiss, RE** and Collins, MD. (2001). Diabetic Embryopathy in C57BL/6J Mice: Altered Fetal Sex Ratio and Impact of the Splotch Allele. *Diabetes*, 50, 1193–1199.
28. Suchard, M. A., **Weiss, R. E.** and Sinsheimer, J. S. (2001). Bayesian Selection of Continuous-Time Markov Chain Evolutionary Models. *Molecular Biology and Evolution*, 18 1001–1013. PMID: 11371589
27. Taylor, J. M. G. T., **Weiss, R. E.**, Li, W., Hsu, C. H. and Suwinski, R. (2001). Estimation for Paired Binomial Data with Application to Radiation Therapy. *Statistics in Medicine*, 20, 3375– 3390. PMID: 11746324
26. Schoenberg, F., Berk, R. , Fovell, R., Li, C. , Lu, R., **Weiss R. E.** (2001). Approximation and inversion of a complex meteorological system via linear filters. *Journal of Applied Meteorology*, 40(3), 446–458.
25. Bradlow, E. T., and **Weiss, R. E.** (2001). Outlier Measures and Norming Methods for Computerized Adaptive Tests. *Journal of Educational and Behavioral Statistics*, 26, 85–104.
24. Zhang, F. and **Weiss, R. E.** (2000). Diagnosing Explainable Heterogeneity of Variance in Random Effects Models. *Canadian Journal of Statistics*, 28, 3–18.
23. **Weiss, R. E.**, Berk, R. A., Li, W. and Farrell-Ross, M. (1999). Death Penalty Charging in Los Angeles County: An Illustrative Data Analysis Using Skeptical Priors. *Sociological Methods and Research*, 28, 91–115.



22. Berk, R., Bond, J., Lu, R., Turco, R., **Weiss, R.** (2000). Real Evaluations in Virtual Worlds: Using Program Evaluation Tools to Assess the Validity of Computer Simulations. In L. Bickman (ed.), *Research Designs: Donald Campbell's Legacy*, vol 2. Sage Publications, Thousand Oaks, CA, pp. 195–214.
21. **Weiss, R. E.**, Cho, M. and Yanuzzi, M. (1999). On Bayesian Calculations for Mixture Priors and Likelihoods. *Statistics in Medicine*, 18, 1555–1570.
20. Liu, H., **Weiss, R.**, E., Jennrich, R. I. and Wenger, N. S. (1999). PRESS Model Selection in Repeated Measures Data. *Computational Statistics and Data Analysis*, 30, 169–184.
19. **Weiss, R. E.** and Marshall, C. R. (1999). The Uncertainty in the True End Point of a Fossil's Stratigraphic Range When Stratigraphic Sections are Sampled Discretely. *Mathematical Geology*, 31, 435–453.
18. Bradlow, E. T., **Weiss, R. E.** and Cho, M. (1998). Bayesian Identification of Outliers in Computerized Adaptive Tests. *JASA*, 93, 910–919.
17. Tao, M. L., Guo, M. D., **Weiss, R.**, Byrne, J., Mills, J. L., Robison, L. L., and Zeltzer, L. K. (1998). Smoking in Adult Survivors of Childhood Acute Lymphoblastic Leukemia. *Journal of the National Cancer Institute*, 90, 219–225.
16. **Weiss, R. E.** (1997). Bayesian Sample Size Computations for Hypothesis Testing. *The Statistician*, 46, 185–191.
15. **Weiss, R. E.** and Cho, M. (1998). Bayesian Marginal Influence Assessment. *Journal of Statistical Planning and Inference*, 71, 163–177.
14. **Weiss, R. E.**, Wang, Y., and Ibrahim, J. G. (1997). Predictive Model Selection for Repeated Measures Random Effects Models Using Bayes Factors. *Biometrics*, 53, 159–169. PMID: 9192454
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12. **Weiss, R. E.** (1996). Sufficiency and Influence (with Discussion). *Bayesian Robustness, IMS Lecture Notes – Monograph Series, Volume 29*, 213–230.
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## Invited Discussion

1. Weiss, R. E. (1995). Discussion of 'A Bayesian Model for Organ Blood Flow Measurement with Colored Microspheres.' Invited discussion for the Carnegie Mellon University Conference on Applied Bayesian Statistics II, pp. 37-45. In *Case Studies in Bayesian Statistics, Volume II*, (eds) C. Gatsonis, J. S. Hodges, R. E. Kass, and N. D. Singpurwalla.

## Invited Editorials

2. Weiss, R. E. (1999). Demand for and Flexibility in Statistics and Statisticians. Invited editorial for *Consultant's Forum, Liaison*.
1. Weiss, R. E. (2010). Bayesian Methods for Data Analysis. Invited Editorial. *American Journal of Ophthalmology*, 149(2), p187-188e1. NIHMS[161622] PMID: PMC2813219

## Technical Reports

11. Boscardin, J., **Weiss, R. E.**, and Zhang, X. (2006). Fitting Unstructured Covariance Matrices to Sparse Longitudinal Data. *Biometrical Journal*, under revision.
10. Bird, C. E., **Weiss, R.**, Duan, N., Rost, K., and Sherbourne, C. D. (2004). Do Quality of Care and Depression Symptoms Differ for Depressed Men and Women in Primary Care?
9. Marmon, T. K., **Weiss, R. E.**, and Unützer, J. (2003). Double Logistic Regression Models for Non-Response in Longitudinal Data.
8. **Weiss, R. E.**, Berk, R. A., Ye, Z., Fovell, R. Lu, R., and Schoenberg, F. (2000). Comparing High Dimensional Computer Simulation Output and Data Using Principal Components.
7. **Weiss, R. E.** (2000). Florida Presidential Vote Recount Analysis. Two short papers (i) Analysis of Florida county level recount data <http://rem.ph.ucla.edu/rob/florida.html> and (ii) The Error in the Florida Presidential Vote Count is 800 Votes, technical report.

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5. Zeltzer, L. K., Aslam, S. N., Porges, S. W., Hamptonie, A., **Weiss, R.**, Zhang, F., Isabel-Jones, J. (1996). Cardiac Vagal Tone as an Index of Stress Load in Sick Children: Response to Cardiac Catheterization.
4. Zeltzer, L., Fanurik, D., **Weiss, R.**, Mizell, T., Shin, D., and Ifekwunigwe, M. (1995). Identification of Stress-Vulnerable Children: The Use of a Laboratory Pain Paradigm And The Children's Somatic Inventory as Predictors of School Nurse Visits and School Absenteeism.
3. **Weiss, R. E.** (1995). Residuals and Outliers in Repeated Measures Random Effects Models.
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## Other Publications

16. Altstein, Lily L. and Weiss, R. E. (2007). Bayesian Hierarchical Models for Self-Reported Sexual Behavior Data. 2007 Proceedings of the American Statistical Association, Section on Bayesian Statistical Science [CD-ROM], Alexandria, VA: American Statistical Association.
15. Boscardin, W. J. and Weiss, R. E. (2001). Models For The Covariance Matrix of Multivariate Longitudinal And Repeated Measures Data. 2001 Proceedings of the American Statistical Association, Section on Bayesian Statistical Science [CD-ROM], Alexandria, VA: American Statistical Association.
14. Basu, S., Weiss, R. and Marshall, C. (2000). Bayesian Inference for Fossil Record Data. ISBA Bulletin, 7, #4, pp. 14 – 15.
13. Suchard M, Weiss R, Sinsheimer J. (2000). Induced Priors on Branch Restrictions Under Equally Likely Evolutionary Trees. Proceedings of the Joint Statistical Meetings, Section on Bayesian Statistical Science. Alexandria, VA: American Statistical Association, pp. 98 – 103.
12. Suchard, M., Weiss, R., Dorman, K., Patel, M., McCabe, E. and Sinsheimer, J. (2000). Evolutionary Similarity Among Genes When Data Are Sparse. Proceedings of the Section on Bayesian Statistical Science. Alexandria, VA: American Statistical Association, pp. 92 – 97.
11. Sanchez, J., Padilla, G., Weiss, R., and Brecht, M. L. (1998). Finding Predictors of Health Related Quality of Life in head and Neck Cancer Patients: A Repeated Measures Model.
10. Liu, H., Weiss, R. E., and Wenger, N. S. (1997). A Goodness of Fit Measure for Repeated Measures Random Effects Models. ASA Proceedings of the Section on Statistical Education, American Statistical Association (Alexandria, VA). 314 – 318.
9. Zhang, Charlie Xiang and Weiss, R. E. (1995). Multivariate Longitudinal Data Analysis with a Family of Covariance Matrices. Proceedings of the ASA Biopharmaceutical section, Alexandria, VA: American Statistical Association, 215 – 220.
8. Liu, H., Weiss, R., E. and Wenger, N. S. (1994). Model Selection in Repeated Measures Random Effects Models. Proceedings of the ASA Biopharmaceutical section, Alexandria, VA: American Statistical Association, 371 – 376.

7. Zhang, F., Weiss, R., E. and Zeltzer, L. (1994). Analyzing Long Irregularly Spaced Repeated Multivariate Measures – A Study of Infant Cardiac Catheterization Stress Responses. Proceedings of the ASA Biopharmaceutical section, Alexandria, VA: American Statistical Association, 365 – 370.
6. Weiss, R. E. (1993). Identification of Outlying Perturbations. 1993 Proceedings of the Section on Bayesian Statistical Science. Alexandria, VA: American Statistical Association, 196 – 201.
5. Weiss, R. E. (1989b), Capturing ALL the Influence: A Graphical Case Statistic For Bayesian Influence Assessment. In Computing Science and Statistics: Proceedings of the 21st Symposium on the Interface, ed. K. Berk, and L. Malone. Alexandria, VA: American Statistical Association, 344 – 349.
4. Weiss, R. E. (1989a), A Graphical Statistic For Case Influence Assessment. University of Minnesota Ph.D. Dissertation.
3. Weiss, R. E. (1988), Posterior Influence Plots. In Computing Science and Statistics: Proceedings of the 20th Symposium on the Interface, ed. E.J. Wegman, D.T. Gantz, and J.J. Miller. Alexandria, VA: American Statistical Association, pp. 464 – 469.
2. Weiss, R. E. (1987), Two statisticians look at the TA survey: Xenophobia, or objective study? Opinions Page, Minnesota Daily, Oct. 2, 1987, p.7.
1. Weiss, R. E. and M. Lavine (1986), Necessary and Sufficient Conditions for Ordinary Least Squares Estimators to be Best Linear Unbiased Estimators. Refereed Letter to the Editor, American Statistician, 40, pp. 178 – 179.

## Book Reviews

3. Weiss, R. E. (1990), “Review of Handbook of Nonlinear Regression Models by D. A. Ratkowsky.” Book Review, Journal of the American Statistical Association, 85, 1172 - 1173.
2. Weiss, R. E. (1994), “Review of Multivariate Density Estimation: Theory Practice, and Visualization by D. W. Scott.” Journal of the American Statistical Association, 89, 359 - 360.
1. Weiss, R. E. (1995), “Review of The Elements of Graphing Data by W. S. Cleveland.” Journal of the American Statistical Association, 90, 1488 - 1489.

## Professional Memberships

- American Statistical Association; 1985-present
- International Biometric Society, Western North American Region 2004-present
- International Society for Bayesian Analysis 2004-present
- Institute for Mathematical Statistics, 1986-1997
- Fellow, Royal Statistical Society, 1989-2005
- Sociedade Portuguesa de Estatística, 1991-2000
- Delta Omega Society, Iota Chapter; Public Health National Honor Society; 1996-present

Robert E Weiss. UNVERIFIED PROFILE. Are you Robert E Weiss? Register this Author. Register author. Register with ORCID iD. PUBLICATIONS 93. Robert E Weiss. Robert E Weiss. About publications (93) network. Publications 93. Publications by authors named "Robert E Weiss". Are you Robert E Weiss? Register this Author. 93Publications. Rainer "Rai" Weiss (/waɛ̃s/; German: [vaɛ̃s]; born September 29, 1932) is an American physicist, known for his contributions in gravitational physics and astrophysics. He is a professor of physics emeritus at MIT and an adjunct professor at LSU. He is best known for inventing the laser interferometric technique which is the basic operation of LIGO. He was Chair of the COBE Science Working Group. Dr. Robert Brown, M.D., D.Phil., Professor and Chair of Neurology at UMMS, is a preeminent leader in neuromuscular disease research whose contributions have included the identification of the SOD1 gene for familial ALS and the dysferlin gene for Miyoshi myopathy and LGMD2B. Dr. Brown will be co-director of the Center training program, providing clinical expertise for trainees on the UMMS campus. UMMS Faculty Profile. Dr. Robert Weiss, Ph.D., is Professor Human Genetics at the University of Utah. His expertise and experience in genomic studies to identify modifiers of Duchenne MD will be used in Project 1 to identify FSHD modifiers in the FSHD Utah cohort in Project 1.