

Curriculum Vitae

Lynn E. Eberly, Ph.D.

Associate Professor
Division of Biostatistics
School of Public Health
University of Minnesota

420 Delaware St. SE, MMC 303
Minneapolis, MN 55455 USA
Voice (1)612.624.1436
Fax (1)612.626.0660
Email lynn@biostat.umn.edu

- Education** Ph.D. (Statistics), Cornell University, August 1997.
Thesis title: “Convergence of Interval Estimates From the Gibbs Sampler”
Thesis advisor: Professor George Casella
- M.S. (Statistics), Cornell University, May 1994.
Thesis title: “Estimating the Number of Unseen Studies In a Meta-Analysis”
Thesis advisor: Professor George Casella
- B.A. (Mathematics/German Language and Literature), Washington
University in St. Louis, May 1991.
- Experience** Associate Professor, Division of Biostatistics, School of Public Health,
University of Minnesota, June 2004–Present.
Visiting Scholar, Department of Biostatistics, School of Public Health,
Johns Hopkins University, August 2006–July 2007.
Assistant Professor, Division of Biostatistics, School of Public Health,
University of Minnesota, August 1997–May 2004.
Associate member of the graduate faculty, September 1997–August 2004.
Full member of the graduate faculty, September 2004–present.
Instructor, Biometrics Unit, Cornell University, Summers 1994, 1995.
Summer Intern, Mathematics Department, General Motors Research
Laboratory, Summer 1992.
- Awards and
Honors** Phi Beta Kappa, inducted 1990.
Teaching Assistant of the Year Award, Biometrics Unit,
Cornell University, 1997.
Delta Omega, inducted 1999.
Leonard M. Schuman Excellence in Teaching Award,
School of Public Health, University of Minnesota, 2002.
American Statistical Association Chapter Recognition Award,
Twin Cities Chapter, 2004.

Last updated: January 30, 2008.

Research and Scholarship

My area of expertise is methods for and applications to correlated data. I am heavily involved in collaborative research with other faculty in the School of Public Health, the Medical School, and the College of Biological Sciences who have either longitudinally collected repeated measures or cluster correlated data. My statistical research has recently expanded into the area of methods for imaging data (NMR spectroscopy, MRI, MEG, etc.). My recent collaborative research has been in cancer, cardiovascular disease, geriatric pharmacoepidemiology, environmental health, and ecology/wildlife biology. My collaborative work allows me to learn about wide ranging areas of science, which is what drew me to statistics many years ago.

Published Articles

1. Ohman PA and **Eberly LE** (1998). "Relating Sick Building symptoms to environmental conditions and worker characteristics," *Indoor Air*, **8**:172-179.
2. **Eberly LE** and Casella G (1999). "Bayesian estimation of the number of unseen studies in a meta-analysis," *Journal of Official Statistics*, **15**:477-494.
3. **Eberly LE**, Ohman PA, Neaton JD, Price RW, and Abrams DI (2000). "Kaposi's sarcoma and CNS disease: a real association or an artifact of the control group?," *AIDS*, **14**(8):995-1000.
4. **Eberly LE** and Carlin BP (2000). "Identifiability and convergence issues for Markov chain Monte Carlo Fitting of Spatial Models," *Statistics in Medicine*, **19**(17-18):2279-2294.
5. Packer C, Collins DA, and **Eberly LE** (2000). "Problems with primate sex ratios," *Philosophical Transactions of the Royal Society of London - Series B*, **355**(1403):1627-1635.
6. Adgate JL, Barr DB, Clayton CA, **Eberly LE**, Freeman NCG, Liroy PJ, Needham LL, Pellizzari ED, Quackenboss JJ, Roy A, and Sexton K (2001). "Measurement of Children's Exposure to Pesticides: Analysis of Urinary Metabolite Levels in a Probability Based Sample," *Environmental Health Perspectives*, **109**(6):583-590.
7. Packer C, Pusey A, and **Eberly LE** (2001). "Egalitarianism in female African lions," *Science*, **293**(5530):690-693.
8. Prospective Studies Collaboration (2002). "Age-specific relevance of usual blood pressure to vascular disease mortality: a meta-analysis of one million adults in 61 prospective studies," *Lancet*, **360**:1903-1913.
9. Sexton K, Adgate JL, **Eberly LE**, Clayton CA, Whitmore RW, Pellizzari ED, Liroy PJ, and Quackenboss JJ (2003). "Predicting children's short-term exposure to pesticides: Results of a questionnaire screening approach," *Environmental Health Perspectives*, **111**(1):123-128.
10. **Eberly LE** and Casella G (2003). "Estimating Bayesian credible intervals," *Journal of Statistical Planning and Inference*, **112**:115-132.
11. **Eberly LE**, Stamler J, and Neaton JD (2003). "Relation of triglycerides, fasting and non-fasting, to coronary heart disease mortality," *Archives of Internal Medicine*, **163**(9):1077-1083.

12. **Eberly LE**, Cohen JD, Prineas R, and Yang L (2003). "The impact of incident diabetes mellitus and incident non-fatal cardiovascular disease on 18 year mortality: The Multiple Risk Factor Intervention Trial experience," *Diabetes Care*, **26**(3):848-854.
13. **Eberly LE**, Ockene J, Sherwin R, Yang L, and Kuller L (2003). "Pulmonary function as a predictor of lung cancer mortality in continuing cigarette smokers and in quitters," *International Journal of Epidemiology*, **32**(4):592-599.
14. Garrard J, Harms S, Hardie N, **Eberly LE**, Nitz N, Bland P, Gross CR, and Leppik IE (2003). "Antiepileptic drug use in nursing home admissions," *Annals of Neurology*, **54**(1):75-85.
15. Garrard J, Harms S, **Eberly LE**, and Matiak A (2003). "Variations in product choices of frequently purchased herbs: Caveat Emptor," *Archives of Internal Medicine*, **163**(19):2290-2295.
16. **Eberly LE** and Louis TA (2004). "Bayes/frequentist compromise decision rules," *Journal of Statistical Planning and Inference*, **121**(2):191-207.
17. Adgate JL, **Eberly LE**, Stroebel C, Pellizzari ED, and Sexton K (2004). "Personal, indoor, and outdoor VOC exposures in a probability sample of children." *Journal of Exposure Analysis and Environmental Epidemiology*, **14**(Suppl.1):S4-S13.
18. Lonsdorf EV, **Eberly LE**, and Pusey A (2004). "Sex differences in development of a tool-use skill in wild chimpanzees," *Nature*, **428**(6984):715-716.
19. **Eberly LE**, Neaton JD, Thomas AJ, and Dai Y (2004). "Screening and mortality in the MRFIT," *Clinical Trials: Journal of the Society for Clinical Trials*, **1**(2):148-161.
20. **Eberly LE** (2004). "Consequences of event rate heterogeneity across non-randomized study sub-groups," *Statistics in Medicine*, **23**(13):2023-2036.
21. Vaccaro O, **Eberly LE**, Neaton JD, Yang L, Riccardi G, and Stamler J (2004). "Impact of Diabetes and previous myocardial infarction on long-term survival: 18 years mortality follow-up of primary screenees on the Multiple Risk Factor Intervention Trial," *Archives of Internal Medicine*, **164**(13):1438-1443.
22. Patterson JM, **Eberly LE**, Ding M, Hargreaves M (2004). "Associations of smoking prevalence with individual and area characteristics: social capital and social support," *Journal of Epidemiology and Community Health*, **58**(8):692-697.
23. Wall MM, Dai Y, and **Eberly LE**. "GEE estimation of a mis-specified time-varying covariate in Poisson regression with many observations," *Statistics in Medicine*, **24**(6):925-39.
24. Fossler SP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, **Eberly LE**, Godden SM, Halbert LW, Campbell AM, Bolin CA, Geiger Zwald AM (2005). "Cattle and environmental sample-level factors associated with presence of Salmonella in a multi-state study of conventional and organic dairy farms," *Preventive Veterinary Medicine*, **67**(1):39-53.
25. Gump BB, Matthews KA, **Eberly LE**, and Chang Y-F (2005). "Depression and mortality: Results from the Multiple Risk Factor Intervention Trial," *Stroke*, **36**(1):98-102.
26. Thomas AJ, **Eberly LE**, Davey Smith G, Neaton JD, and Stamler J (2005). "Race/Ethnicity, Income, Major Risk Factors and CVD Mortality," *American Journal of Public Health*, **95**(8): 1417-1423.

27. Harms S, **Eberly LE**, Garrard JM, Hardie NA, Bland PC, and Leppik IE (2005). "Prevalence of appropriate and problematic antiepileptic combination therapy in older people in the nursing home," *Journal of the American Geriatrics Society*, **53**(6):1023-1028.
28. Fossler CP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, Bender JB, **Eberly LE**, Godden SM, and Halbert LW (2005). Herd-level factors associated with isolation of Salmonella in a multi-state study of conventional and organic dairy farms I. Salmonella shedding in cows. *Preventive Veterinary Medicine*, **70**(3-4):257-277.
29. Fossler CP, Wells SJ, Kaneene JB, Ruegg PL, Warnick LD, Bender JB, **Eberly LE**, Godden SM, and Halbert LW (2005). Herd-level factors associated with isolation of Salmonella in a multi-state study of conventional and organic dairy farms II. Salmonella shedding in calves. *Preventive Veterinary Medicine*, **70**(3-4):279-291.
30. Thomas AJ, **Eberly LE**, Neaton JD, and Smith GD, for the Multiple Risk Factor Intervention Trial Research Group (2005). Latino Risk-adjusted Mortality in the Men Screened for the Multiple Risk Factor Intervention Trial. *American Journal of Epidemiology*, **162**(6):569-578.
31. Thomas AJ, **Eberly LE**, Neaton JD, Smith GD, and Stamler J, for the Multiple Risk Factor Intervention Trial Research Group (2005). Race/Ethnicity, Income, Major Risk Factors, and Cardiovascular Disease Mortality. *American Journal of Public Health*, **95**(8):1417-1423.
32. **Eberly LE** and Thackeray LM (2005). "Using Standard Tests of Normality with Lange and Ryan's Plotting Technique for Diagnosing Non-Normality of Random Effects," *Statistics and Probability Letters*, 75:77-85.
33. **Eberly LE**, Prineas R, Cohen JD, Vazquez G, Zhi X, Neaton JD, and Kuller LH for the Multiple Risk Factor Intervention Trial Research Group (2006). "Metabolic Syndrome: Risk factor distribution and 18-year mortality in the Multiple Risk Factor Intervention Trial," *Diabetes Care*, 29(1):123-130.
34. Harms SL, Garrard J, Schwinghammer P, **Eberly LE**, Chang Y, and Leppik IE (2006). "Ginkgo Biloba Use in Nursing Home Elderly with Epilepsy or Seizure Disorder," *Epilepsia*, 47(2):323-329.
35. Gilby IC, **Eberly LE**, and Pusey AE (2006). "Ecological and social influences on the hunting behaviour of chimpanzees (*Pan troglodytes schweinfurthii*)," *Animal Behaviour*, 72:169-180.
36. Thomas AJ, **Eberly LE**, Davey Smith G, and Neaton JD (2006). "ZIP-code-based versus tract-based income measures as long-term risk-adjusted mortality predictors," *American Journal of Epidemiology*, 164(6): 586-90.
37. Murray, C M, **Eberly LE**, and Pusey, AE (2006). "Foraging strategies as a function of season and dominance rank among wild female chimpanzees (*Pan troglodytes schweinfurthii*)." *Behavioral Ecology*, 17: 1020-1028.
38. Sinner P, Folsom AR, Harnack L, **Eberly LE**, Schmitz KH (2006). "The association of physical activity with lung cancer incidence in a cohort of older women: The Iowa Women's Health Study," *Cancer Epidemiol Biomarkers Prev*, 15(12): 2359-2363.
39. Garrard JM, Harms S, **Eberly LE**, and Leppik I (2007). "Use of antiepileptic medications in nursing homes," *International Review of Neurobiology*, 81: 165-182.

40. Scher DP, Alexander BH, Adgate JL, **Eberly LE**, Mandel JS, Acquavella JF, Bartels MJ, and Brzak KA (2007). "Agreement of pesticide biomarkers between morning void and 24-hour urine samples from farmers and their children." *Journal of Exposure Science and Environmental Epidemiology*, 17(4): 350-357.
41. Thomas AJ, **Eberly LE**, Neaton JD, and Davey Smith G (2007). "Census-based and personally reported income measures as long-term risk-adjusted mortality predictors." *Public Health*, 121(12): 898-901.
42. Gilby IC, **Eberly LE**, and Wrangham R (2007). "Economic profitability of social predation among wild chimpanzees: individual variation promotes cooperation." *Animal Behaviour*, to appear.

Book Chapters

1. Stamler J, Daviglius M, Garside DB, Greenland P, **Eberly LE**, Yang L, and Neaton JD (2006). "Low risk cardiovascular status: Impact on cardiovascular mortality and longevity." In Lauer RM, Burns TL, Daniels SR (Editors), *Pediatric Prevention of Atherosclerotic Cardiovascular Disease*, London: Oxford University Press.
2. **Eberly LE** (2007). "Correlation and Simple Linear Regression." In Ambrosius WT (Editor), *Topics in Biostatistics*, New York: Humana Press. In press.
3. **Eberly LE** (2007). "Multiple Linear Regression." In Ambrosius WT (Editor), *Topics in Biostatistics*, New York: Humana Press. In press.

Other Peer-Reviewed Publications

1. **Eberly LE**, Grambsch P, and Connett JE (2001). "Comments on 'Understanding the shape of the hazard rate: A process point of view' by Aalen O.A. and Gjesing H.K.," *Statistical Science*, **16**:16-19.
2. Adgate JL, Bollenbeck M, **Eberly LE**, Stroebel C, Pellizzari ED, and Sexton K (2002). "Residential VOC concentrations in a probability-based sample of households with children" from the 9th International Conference on Indoor Air Quality and Climate, Monterey, CA, 30 June - 5 July 2002, *Indoor Air 2002 Proceedings*, Volume 1: 203-209.
3. Garrard J, Harms SL, Dysken M, **Eberly LE**, Hardie N, Leppik IE (2002). "Association Between Antiepileptic Drug Use and Bipolar Disorder in Nursing Home Admissions." *Epilepsia*, **43**(S7): 218 (Abstract 2.260).
4. Leppik IE, Zhao L, **Eberly LE**, Harms SL, Garrard JM (2006). "Pattern of AED Use in Nursing Homes." *Epilepsia*, **47**(S4): 104 (Abstract 2.218).
5. Lamba M, **Eberly LE**, Ramsay RE, Macias FM, Collins JF, Birnbaum AK (2007). "Variability of gabapentin concentrations in community dwelling elderly epilepsy patients," *Neurology* **68**(12, Suppl. 1) (A126).

Non-Peer-Reviewed Articles

1. **Eberly LE**, Liu J, Wang Z, and Hao W (1998). "Relation of coenrollment to survival in AIDS clinical trials," University of Minnesota Division of Biostatistics Research Report #98-011.
2. **Eberly LE** and Louis TA (1999). "Bayes / Frequentist Compromise Rules for Outlier Detection," *Bayesian Statistical Science Proceedings of the 1999 Joint Statistical Meetings*.
3. **Eberly LE**, Chen L, Huppler-Hullsiek, and Leduc R (1998). "Correlates of coenrollment in AIDS clinical trials," University of Minnesota Division of Biostatistics Research Report #99-007.
4. **Eberly LE** and Louis TA (2000). "Estimating Random Effects Based on Both Bayes and Frequentist Performance Measures in Clinical Trials," *Biopharmaceutical Proceedings of the 2000 Joint Statistical Meetings*.
5. **Eberly LE** and Grambsch P (2001). "Comparison of inverse Gaussian distributions with two-parameter Weibull, log normal, and gamma for modeling censored survival data," *Biopharmaceutical Proceedings of the 2001 Joint Statistical Meetings*.
6. **Eberly LE**, Mullin C, and Grambsch P (2002). "Testing for non-proportional hazards in stratified models," *Biopharmaceutical Proceedings of the 2002 Joint Statistical Meetings*.
7. **Eberly LE** and Thackeray LM (2003). "Diagnosing non-normality of random effects in General Linear Mixed Models: Can we distinguish between an incorrect mean model and an incorrect random effects model?" *Biometrics Proceedings of the 2003 Joint Statistical Meetings*.

Submitted Articles

1. Mosser A, Fryxell J, **Eberly LE**, and Packer C. "Serengeti real estate: a lion's eye view of the savanna landscape," in review.
2. Chen S, Wang C, Caffo B, **Eberly L**, Schwartz B. "Using the Positive False Discovery Rate Procedure in Voxel-Based Morphometry," in review.
3. Su S-C, Caffo BS, **Eberly LE**, Garrett-Mayer E, Stewart WF, and Schwartz B. "On the merits of voxel-based morphometric path-analysis for investigating volumetric mediation of a toxicant's influence on cognitive function," in review.
4. Wang J, Kane RL, **Eberly LE**, Virnig BA, Chang L-H. "The effects of residents and nursing home characteristics on activities of daily living," in review.
5. Iltis I, Koski D, **Eberly LE**, Nelson C, Deelchand D, Valette J, Ugurbil K, Lim KO, and Henry P-G. "In vivo measurement of the neurochemical profile in the rat prefrontal cortex after NMDA receptors blockade: a localized ^1H MRS study," in review.

Presentations

Invited Conference Presentations

1. **Eberly, LE**, Kuller LH, Peng Y, Neaton JD, and Stamler J. “Dietary Patterns in Middle-Age and Longevity in the Multiple Risk Factor Intervention Trial (MRFIT),” invited talk presented by LE Eberly at the conference on *Nutrition and Quality Health Among Older Individuals: What Should We Recommend?* Center for Healthy Aging, Graduate School of Public Health, University of Pittsburgh, May 2006.

Peer-Reviewed Abstracts

1. Nitz NM, Garrard J, **Eberly LE**, Rolnick SJ, and Artz MB. “Gender Differences in Longitudinal Quality of Life for Depressed and Non-Depressed Elderly,” paper presented by NM Nitz at the Association for Health Services Research Annual Meetings, Chicago, June 1999.
2. El-Sadr WM, **Eberly LE**, and Cohn DL. “Mortality associated with HIV-related Opportunistic Diseases Prior to and Since HAART,” paper presented by WM El-Sadr at the 39th Annual Conference on Antimicrobial Agents and Chemotherapy, San Francisco, September 1999.
3. Shade SB, Rappoport C, LeSueur D, Mullin C, and **Eberly LE**. “Gender Differences in Viral Load: Results from Six Clinical Trials,” poster presented by SB Shade at the XIIIth International AIDS Conference, in Durban, South Africa, July 2000.
4. **Eberly LE**, Stamler J, and Neaton JD. “Relation of triglycerides, fasting and non-fasting, to coronary heart disease mortality: Findings for men randomized into the Multiple Risk Factor Intervention Trial,” oral presentation given by **LE Eberly** at the 5th International Conference on Preventive Cardiology, in Osaka, Japan, May 2001.
5. Cohen JD, **Eberly LE**, Yang L, and Prineas RJ. “Mortality experience for men with and without incident diabetes mellitus (DM) and/or cardiovascular disease (CVD): 16 year follow-up in the Multiple Risk Factor Intervention Trial,” oral presentation given by JD Cohen at the Scientific Sessions 2001 of the American Heart Association, in Anaheim, CA, November 2001.
6. Stamler J, Daviglius ML, Garside DB, Greenland P, **Eberly LE**, Neaton JD, and Yang L. “Long-term consequences of elevated levels of risk factors – and low risk status – in young adults,” invited plenary presentation given by ML Daviglius at the Scientific Sessions 2001 of the American Heart Association, in Anaheim, CA, November 2001.
7. Harms SL, Hardie NA, **Eberly LE**, Garrard J, and Leppik IE. “AED mono- and poly-therapy among nursing home elderly,” oral presentation given by NA Hardie at the Annual Meeting of the American Epilepsy Society, in Philadelphia, PA, December 2001.
8. Vaccaro O, **Eberly LE**, Neaton JD, and Stamler J. “Diabetes and CHD as predictors of mortality: The MRFIT experience,” poster presentation given by O Vaccaro at the Annual Meeting of the European Diabetes Epidemiology Group, Oxford, England, March 2002.

9. Thomas A, **Eberly LE**, Davey-Smith G, Neaton JD, and Stamler J. "Black/white differences in CVD mortality across the full range of risk: results from the Multiple Risk Factor Intervention Trial," oral presentation given by A Thomas at the 42nd Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Honolulu, HI, March 2002.
10. Stamler J, **Eberly LE**, Yang L, and Neaton JD. "Benefits of low risk compared to higher risk status: 18-year CHD, CVD, and all cause mortality for younger men screened for the Multiple Risk Factor Intervention Trial (MRFIT)," poster presentation given by A Thomas at the 42nd Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Honolulu, HI, March 2002.
11. Vaccaro O, **Eberly LE**, Neaton JD, Yang L, and Stamler J. "Impact of diabetes and coronary heart disease (CHD) on mortality - 18.8 years follow-up of primary screenees of the Multiple Risk Factor Intervention Trial (MRFIT)," poster presentation given by O Vaccaro at the 62nd Annual Meetings of the American Diabetes Association, San Francisco, CA, June 2002.
12. **Eberly LE**, Ockene J, Sherwin R, Yang L, and Kuller L. "Pulmonary function is a powerful predictor of lung cancer among cigarette smokers," poster presentation given by L Kuller at the 34th Annual Meetings of the Society for Epidemiological Research, Palm Desert, CA, June 2002.
13. **Eberly LE**, Ockene J, Sherwin R, Yang L, and Kuller LH. "Pulmonary function as a predictor of lung cancer mortality in a large cohort of cigarette smokers," oral presentation given by LH Kuller at the XVI International Epidemiological Association World Congress of Epidemiology, in Montreal, Canada, August 2002.
14. Cohen JD, **Eberly LE**, Huang R, and Prineas RJ. "Mean fasting glucose levels incrementally predict cardiovascular disease (CVD) mortality: Eighteen year follow-up in the Multiple Risk Factor Intervention Trial (MRFIT)," oral presentation given by JD Cohen at the Scientific Sessions 2002 of the American Heart Association, in Chicago, IL, November 2002.
15. Garrard J, Harms S, Dysken M, **Eberly LE**, Hardie N, and Leppik I. "Association between antiepileptic drug use and bipolar disorder in nursing home admissions," poster presentation given by J Garrard at the Annual Meeting of the American Epilepsy Society, in Seattle, WA, December 2002.
16. Forster JL, Chen V, Perry CL, Oswald J, McCarty MC, **Eberly L**, and Grambsch PM. "Design of the Minnesota Adolescent Community Cohort Study (MACC): A multilevel longitudinal study of tobacco use in youth," oral presentation given by JL Forster at the 130th Annual Meeting and Exposition of the American Public Health Association, in Philadelphia, PA, November 2002.
17. McCarty MC, Forster JL, Chen V, Toomey T, and **Eberly L**. "Measurement and effects of community-level tobacco prevention programs: the Minnesota Adolescent Community Cohort Study," oral presentation given by MC McCarty at the 130th Annual Meeting and Exposition of the American Public Health Association, in Philadelphia, PA, November 2002.
18. Cohen JD, **Eberly LE**, Prineas RJ, and Vazquez G for the MRFIT Research Group. "The influence of the metabolic syndrome on 25 year mortality among middle-aged men in the Multiple Risk Factor Intervention Trial (MRFIT)," oral presentation given by JD Cohen at the American College of Cardiology Annual Scientific Session, Chicago, IL, March 2003.

19. Patterson JM, **Eberly LE**, Ding M, and Hargreaves M. "Associations of smoking prevalence with individual and area characteristics: Social capital and social support," oral presentation given by M Ding at the Seventh Annual Minnesota Health Services Research Conference, Minneapolis, MN, March 2003.
20. Kuller L, Neaton JD, **Eberly LE**, and Thomas A. "Severe hypercholesterolemia and 25 year mortality in the Multiple Risk Factor Intervention Trial," presented by A Thomas at the American Heart Association 43rd Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Miami, FL, March 2003.
21. **Eberly LE**, Dai Y, Thomas A, Neaton JD. "Long term mortality implications of screening outcome in the Multiple Risk Factor Intervention Trial," poster presentation by **LE Eberly** at the 3rd Joint Meeting of the Society for Clinical Trials and the International Society for Clinical Biostatistics, London, UK, July 2003.
22. Harms SL, **Eberly LE**, Garrard J, Modak S, and Leppik I. "Prevalence of epilepsy/seizure disorder among minorities in nursing homes," poster presentation given by SL Harms at the International Geriatric Epilepsy Symposium, Miami, FL, September 2003.
23. Garrard J, Harms S, **Eberly LE**, and Leppik I. "Pharmacoepidemiology of AED use in nursing homes by elderly residents and admissions," oral presentation given by J Garrard at the International Geriatric Epilepsy Symposium, Miami, FL, September 2003.
24. Cohen JD, Vazquez G, **Eberly LE**, Prineas RJ, Zhi X, Kuller L, and Neaton JD. "Impact of the metabolic syndrome on cardiovascular disease mortality - The Multiple Risk Factor Intervention Trial 18 Year Follow-up Experience," oral presentation given by JD Cohen at the Scientific Sessions 2003 of the American Heart Association, November 2003.
25. Patterson JM, **Eberly LE**, Ding M, and Hargreaves M. "Associations of smoking prevalence with individual and area-level social cohesion," poster presentation given by J Patterson at the 131st Annual Meeting of the American Public Health Association, San Francisco, CA, November 2003.
26. Cohen JD, Prineas RJ, Zhi X, **Eberly LE**, Kuller L, and Neaton JD. "The impact of prior myocardial infarction, metabolic syndrome, and high white blood cell (WBC) count on coronary heart disease mortality - The Multiple Risk Factor Intervention Trial 18 Year Follow-up Experience," oral presentation given by JD Cohen at the American College of Cardiology Annual Scientific Session, New Orleans, March 2004.
27. Thomas AJ, Davey-Smith G, **Eberly LE**, and Neaton JD. "Association of parental diabetes with coronary heart disease (CHD) and diabetes among offspring: results from the Multiple Risk Factor Intervention Trial (MRFIT)," poster presentation given by AJ Thomas at the 35th Annual Meetings of the Society for Epidemiological Research, Salt Lake City, June 2004.
28. Scher DP, Alexander BH, Adgate JL, Hawkins DM, **Eberly LE**, Bartels MJ, Mandel JS, Acquavella JF. "Measuring agreement of pesticide metabolite levels in first morning void samples versus 24-hour urine samples from applicators and children in the Farm Family Exposure Study," poster presentation by DP Scher at the 14th International Society of Exposure Analysis Conference, in Philadelphia, PA, October 2004.

29. Xin Y, **Eberly LE**, Garrard J, Harms SL. "Post-Osteoporotic Fracture Drug Treatment for Osteoporosis in Nursing Home Elderly," poster presentation by Y Xin at the ISPOR 10th Annual International Meeting, in Washington, DC, May 2005.
30. Leppik IE, Zhao L, **Eberly LE**, Harms SL, Garrard JM. "Pattern of AED Use in Nursing Homes," poster presentation by I Leppik at the 60th Annual Meeting of the American Epilepsy Society in San Diego, CA, Dec 2006.
31. Iltis I, Koski D, **Eberly LE**, Deelchand D, Valette J, Lim KO, Ugurbil K, Henry P-G. "Effects of PCP on the prefrontal cortex metabolism in intact, anesthetized rats," oral presentation by I Iltis at the ISMRM-ESMRMB Joint Annual Meeting in Berlin, Germany, May 2007. [Proceedings #716, p. 163]
32. Leppik I, Garrard JM, **Eberly LE**, Harms SL, Zhu L. "Racial Disparities in Access to Newer AEDs," poster presentation by I Leppik at the American Academy of Neurology 59th Annual Meetings, Boston, MA, May 2007.
33. Lamba M, **Eberly LE**, Ramsay E, Macias C, Birnbaum A. "Variability of Gabapentin Concentrations in Community Dwelling Elderly Epilepsy Patients," poster presentation by M Lamba at the American Academy of Neurology 59th Annual Meetings, Boston, MA, May 2007.
34. Meisamy S, McIntosh AD, Corum C, Stycznski A, Bolan PJ, Garwood MG, et al. "Neoadjuvant chemotherapy of locally advanced breast cancer: Predicting response with quantitative in vivo 1H MR spectroscopy at 4 Tesla in 31 Patients," 43rd American Society of Clinical Oncology Annual Meeting, Chicago, June 2007.
35. Leppik IE, Garrard JM, **Eberly LE**, Harms SM, Zhu Y. "Gender and Racial Disparities in AED use for Epilepsy in Nursing Homes," poster presentation by IE Leppik at the 27th International Epilepsy Congress, Singapore, July 2007.
36. Iltis I, Koski DM, **Eberly L**, Deelchand DK, Valette J, Lim KO, Ugurbil K and Henry PG. "Effects of PCP on the prefrontal cortex metabolism in intact, anesthetized rats," poster presentation by I Iltis at the 21st Biennial Meeting of the ISN/ASN, Cancun, Mexico, August 2007.
37. Leppik IE, Zhao L, **Eberly LE**, Harms SL, Garrard JM. "Pattern of AED use in nursing homes," *Epilepsia* 47(Suppl. 4). 2006. A194.
38. Lamba M, **Eberly LE**, Ramsay RE, Macias FM, Collins JF, Birnbaum AK. "Variability of gabapentin concentrations in community dwelling elderly epilepsy patients," *Neurology* 68(12, Suppl. 1). 2007. A126.

Other Conference Presentations

1. **Eberly LE** and Casella G. "Estimating the number of unseen studies in a meta-analysis: an application in lead exposure and IQ levels," oral presentation given by **LE Eberly** at the Joint Statistical Meetings, Chicago IL, August 4-8 1996.
2. **Eberly LE** and Casella G. "Constructing interval estimates from the Gibbs sampler," oral presentation given by **LE Eberly** at the Joint Statistical Meetings, Anaheim CA, August 10-14 1997.

- Eberly LE** and Casella G. “Interval estimates for cases of clinical mastitis using the Gibbs sampler,” poster presentation given by **LE Eberly** at the Case Studies in Bayesian Statistics Workshop 4, September 26-27 1997, Pittsburgh PA.
3. **Eberly LE** and Casella G. “Convergence of interval estimates from the Gibbs sampler,” poster presentation given by **LE Eberly** at the Young Researcher Poster Session, Statistics for Correlated Data: Iowa State 50th Anniversary Conference, Ames IA, October 16-18 1997.
 4. **Eberly LE** and Casella G. “MCMC-generated Bayesian credible intervals in hierarchical models,” oral presentation given by **LE Eberly** at the International Biometric Society Eastern North American Region 1998 Spring Meeting, Pittsburgh PA, March 29 - April 1 1998.
 5. **Eberly LE** and Casella G. “MCMC-generated Bayesian credible intervals in hierarchical models,” poster presentation given by **LE Eberly** at the 6th Valencia International Meeting on Bayesian Statistics, May 29-June 4 1998, Alcossebre, Spain.
 6. **Eberly LE**, Chen L, Hodges J, Huppler-Hullsiek K, and Louis TA. “Correlates of coenrollment,” oral presentation given by **LE Eberly** at the International Biometric Society Eastern North American Region 1999 Spring Meeting, Atlanta GA, March 28-31 1999.
 7. **Eberly LE** and Louis TA. “Bayes / Frequentist Compromise Rules for Outlier Detection,” oral presentation given by **LE Eberly** at the New Researchers Conference and the Joint Statistical Meetings, Baltimore, MD, August 4-7 1999.
 8. **Eberly LE** and Carlin BP. “A spatial application in Bayesian learning and identifiability,” poster presentation given by **LE Eberly** at the Case Studies in Bayesian Statistics Workshop 5, Pittsburgh PA, September 24-25 1999.
 9. **Eberly LE** and Louis TA. “Estimating Random Effects Based on Both Bayes and Frequentist Performance Measures in Clinical Trials,” oral presentation given by **LE Eberly** at the Joint Statistical Meetings, Indianapolis, IN, August 13-17 2000.
 10. **Eberly LE** and Ohman PA. “Use of a shifted frailty distribution for modeling high incidence, highly repeatable events,” poster presentation given by **LE Eberly** at the Second Seattle Symposium on Biostatistics: Analysis of Correlated Data, Seattle, WA, November 20-21 2000.
 11. **Eberly LE** and Grambsch P. “Comparison of inverse Gaussian distributions with two-parameter Weibull, log normal, and gamma for modeling censored survival data,” oral presentation given by **LE Eberly** at the Joint Statistical Meetings, Atlanta, GA, August 5-9 2001.
 12. **Eberly LE**, Mullin C, and Grambsch P. “Testing for non-proportional hazards in stratified models,” oral presentation given by **LE Eberly** at the Joint Statistical Meetings, New York, NY, August 11-15 2002.
 13. **Eberly LE** and Yang L. “Adjusting for clinic effects when estimating a treatment effect: stratified, cluster, and frailty models,” oral presentation given by **LE Eberly** at the 2003 Eastern North American Region Spring Meeting of the International Biometrics Society, Tampa, FL, March 30 - 2 April 2003.

14. **Eberly LE** and Thackeray LM. “Diagnosing non-normality of random effects in General Linear Mixed Models: Can we distinguish between an incorrect mean model and an incorrect random effects model?” oral presentation given by **LE Eberly** at the Joint Statistical Meetings, San Francisco, CA, August 3-7 2003.

Invited Departmental Talks

1. Biometrics Unit Discussion Series, Cornell University, February 1996.
2. Department of Statistics Seminar, The Pennsylvania State University, February 1997.
3. Biometrics Unit Discussion Series, Cornell University, February 1997.
4. Department of Statistics and Applied Probability Seminar, University of California - Santa Barbara, February 1997.
5. Department of Mathematics and Statistics Seminar, Western Michigan University, March 1997.
6. Department of Mathematics and Statistics Seminar, Winona State University, December 1998.
7. Department of Statistics Seminar, University of Minnesota, December 1998.
8. Department of Statistics Seminar, Iowa State University, April 1999.
9. Department of Statistics Seminar, University of Florida, May 1999.
10. Department of Statistics Biostatistics/Genetics Seminar, Purdue University, October 1999.
11. Department of Statistics Seminar, Carnegie Mellon University, April 2000.
12. Department of Mathematics and Computer Science, Carleton College, October 2001.
13. Department of Mathematics and Computer Science, Carleton College, October 2002.
14. Invited panelist at the PEW Midstates Science and Mathematics Consortium “Upper Level Statistics in the 21st Century: Linking Practice and Pedagogy,” Northfield, MN, November 2003.
15. Department of Animal Science, University of Minnesota, October 2005.
16. Invited speaker at the symposium “Nutrition and Quality Health Among Older Individuals: What Should We Recommend?” at the Center for Healthy Aging, Graduate School of Public Health, University of Pittsburgh, May 2006.
17. Statistical Imaging Working Group, Department of Biostatistics, Johns Hopkins University, February 2007

Research Grant Support

1. AHCPR salary support from the Patient Outcomes Associated with Antidepressant Drugs grant, P.I. Dr. Judy Garrard; **Dr. Lynn Eberly**, Statistician, 10-15% effort, July 1998 – February 1999.
2. NIH (NIAID) salary support from the Community Programs for Clinical Research on AIDS grant, P.I. Dr. James Neaton; **Dr. Lynn Eberly**, Senior Statistician, 20% effort, October 1997 – March 2001.
3. EPA salary support from the Measuring and Apportioning Children's Exposures to Pesticides in Urban, Suburban, and Rural Communities grant, P.I. Dr. Ken Sexton; **Dr. Lynn Eberly**, Statistician, 5% effort, September 1999 – July 2001.
4. NIH (NCI) salary support from the Effect of Minnesota State and Local Programs on Youth Tobacco Use grant, P.I. Dr. Jean Forster; **Dr. Lynn Eberly**, Co-Investigator, 10% effort, May 2000 – April 2003.
5. RA salary and computing support from a University of Minnesota Grant-in-Aid of Research, Artistry, and Scholarship, Time to Exhaustion of Anti-HIV Drugs Through Multivariate Frailty Models, **Principal Investigator Dr. Lynn Eberly**, July 2000 – December 2001.
6. NIH (NINDS) salary support from the Pharmacoepidemiology of Antiepileptics grant and bridge funding, P50 Project P.I. Dr. Judith Garrard; **Dr. Lynn Eberly**, Co- Investigator, 10-15% effort, July 2000 – August 2002.
7. Retirement Research Foundation salary support from the Medication Use by Residents of Assisted Living Facilities grant, P.I. Dr. Judith Garrard; **Dr. Lynn Eberly**, Co-Investigator, 10% effort, November 2000 – September 2002.
8. NIH (NHLBI) salary support from the MRFIT Long-term Mortality Follow-up grant, P.I. Dr. James Neaton; **Co-Principal Investigator Dr. Lynn Eberly**, 40% effort, January 2001 – December 2005, 15% effort, January – June 2006 (no cost extension). \$2,609,680 direct costs.
9. NIH (NINDS) salary support from the Epilepsy Clinical Research grant, P50 Project P.I. Dr. Judith Garrard; **Dr. Lynn Eberly**, Co-Investigator, 15% effort, September 2002 – August 2007.
10. NIH (NCI) salary support from the Statistical Methods in Cancer Control and Epidemiology (SMICCE) grant, P.I. Dr. Bradley Carlin; **Co-Principal Investigator Dr. Lynn Eberly**, 10% effort, August 2003 – July 2005. \$1,244,941 direct costs.
11. NIH (NINR) salary support from the Informatics Based Nurse Triage in Lung Transplant Care grant, P.I. Dr. Stanley Finkelstein; **Dr. Lynn Eberly**, member of Data Safety and Monitoring Board, 1% effort, August 2005 – May 2009.
12. NIH salary support from the MRS and MRI of Breast Cancer at Very High Magnetic Field grant, P.I. Dr. Michael Garwood; **Dr. Lynn Eberly**, Statistician, 8% effort, July 2006 – March 2007.
13. NIH (NIA) salary support from the Clinical Impact of Unstable AED Levels in Elderly Nursing Home Epilepsy grant, P.I. Dr. Angela Birnbaum; **Dr. Lynn Eberly**, Co-Investigator, 15% effort, Sept 2007 – June 2012.

14. NIH salary support from the Quantitative MRS of the Human Breast grant, P.I. Dr. Patrick Bolan; **Dr. Lynn Eberly**, Statistician, 5% effort, Sept 2007 – Nov 2009.
15. Henry Jackson Foundation salary support from the Infectious Disease Clinical Research Program Data Analysis Center, P.I. Dr. Alan Lifson; **Dr. Lynn Eberly**, Senior Statistician, 25% effort, Sept 2007 – March 2009.
16. NIH (NINDS) salary support from the Neurochemical Correlates of Pathology in Spinocerebellar Ataxias grant, P.I. Dr. Gulin Oz; **Dr. Lynn Eberly**, Co-Investigator, 3% effort, Sept 2007 – June 2009.
17. Bob Allison Ataxia Research Center (BAARC) salary support from the Neurochemical Alterations in SCA1 Mouse Models and Patients by High Field Magnetic Resonance Spectroscopy grant, **Dr. Lynn Eberly**, Co-Investigator, 3% effort, Sept 2007 – May 2008.
18. In review, CDC/Epilepsy Program: Incidence of epilepsy/seizure and outcomes in nursing homes: a 5 year cohort. **Principal Investigator Dr. Lynn Eberly**. \$742,964 direct costs over 3 years beginning Apr 2008.
19. In revision, NIH: Epilepsy, anti-epileptic treatment, and clinical complications. **Principal Investigator Dr. Lynn Eberly**. \$737,976 direct costs over 3 years.
20. In review: other proposals in epilepsy and in imaging to NIH as Co-Investigator.

Thesis Advising

Advisee	Degree program	Date of completion	Topic
Abrams, Allyson	MS	Nov 2005	The SAS/SaTScan Macro Accessory for Cartography (SMAC) Package
An, Qian	MS	Jul 2005	Bootstrap Confidence intervals for the variance components in a general linear mixed model
Barin, Burc	MS	Jun 2004	Bootstrap-based intervals for frailty models
Barry, Vaughn	MPH	Jun 2006	Cause-specific mortality in relation to Body Mass Index among men from the Multiple Risk Factor Intervention Trial
Brearily, Ann	MS	current	
Chang, Yanping	MS	Aug 2004	Epilepsy and its treatment in US nursing homes
Golden, Wen Adele	MS	Aug 2006	Comparison of Nonlinear Mixed Effect Model Fitting in SAS®and SPLUS®: NLMIXED vs. NLME Procedure
Huang, Reiping	MS	Mar 2004	Estimating neighborhood effects in observational studies: comparison of regression models and propensity score matching
Jones, Elizabeth	MS	Jan 2003	Methods for analysis of time-to-event data with time-varying covariates
Lind, Gregg	MS	May 2006	PedSeer: A set of computer programs for visualizing, modifying, and repairing pedigree data
Mullin, Chris	MS	Jul 2001	Testing proportional hazards in stratified Cox regression models
Peng, Yi	MS	Mar 2007	Likelihood Ratio Test of Variance Components in General Linear Mixed Model comparing group-specific random intercepts to group-specific random intercepts and slopes
Thackeray, Lisa	MS	Jun 2003	Evaluating the normality assumption of random effects in longitudinal models
Wang, Yinghui	MS	Jun 2005	Accounting for dropout in large clinical trials
Weinhandl, Eric	MS	May 2004	Conflicting conclusions from the Wald F-test and the likelihood ratio chi-square test in linear mixed models with small sample sizes
Wold, Nicholas	MS	current	
Xie, Wanling	MS	Jun 2005	Comparison of two diagnostic procedures, Cook's Distance and Conditional Cook's Distance, in linear mixed models
Yang, Lingfeng	MS	Jun 2002	Power and bias in adjusting for clinic effects: stratified, clustered, and frailty models
Ye, Xin	MS	Nov 2004	Prevalence of osteoporotic fracture and drug treatment for osteoporosis in the elderly
Yi, Xin	MS	Dec 2004	Inappropriately prescribed drugs in US nursing homes
Zhi, Xin	PhD	Aug 2004	Frailty model selection with multiple frailties

I also frequently serve on the PhD committees for Ecology, Animal Science, Health Management and Policy, and Statistics PhD students, usually two to five per year. I am Co-Principal Investigator for a T32 training grant in Biostatistics/HIV-AIDS. I am also Associate Mentor on a K12 training grant for three clinician researchers in the Clinical Research MS program.

Teaching

I have taught both MS and PhD classes in Biostatistics, and introductory statistics classes, and in the past developed my own new course on Methods for Correlated Data for Biostatistics MS students and PhD students in other fields. I derive substantial enjoyment and personal satisfaction from my teaching, and I consistently receive very good to excellent reviews from student evaluations.

Courses Taught

Course	Student Audience	Terms
Biostatistics I	MPH	Fall 2007
Biostatistical Thinking	Biostatistics MS	Fall 2001
ANOVA and Experimental Design	Biostatistics MS	Fall 1999 Spring 2003 Spring 2004 Spring 2005 Spring 2006
Regression	Biostatistics MS	Winter 1998 Winter 1999
Methods for Correlated Data	Biostatistics MS, other PhD	Spring 2001 Spring 2002 Fall 2002 Fall 2003 Fall 2004 Fall 2005 Fall 2007
Advanced Longitudinal Data Analysis	Biostatistics PhD	Spring 1999 Spring 2000

Awards

Leonard M. Schuman Excellence in Teaching Award, School of Public Health, University of Minnesota, 2002.

Professional Service

Refereeing of Publications

American Journal of Epidemiology, American Statistician, Biometrical Journal, Biometrics, Circulation, Controlled Clinical Trials, Journal of Biopharmaceutical Statistics, Journal of Computational and Graphical Statistics, Journal of the American Statistical Association, International Journal of Epidemiology, Lifetime Data Analysis, Mathematical Biosciences, Psychometrika, Statistical Science, Statistics in Medicine, John Wiley & Sons, Inc., Prentice Hall, Springer-Verlag, Inc.

Service to Professional Organizations

Session Chair, “Growth Models and Curve Fitting,” Joint Statistical Meetings, August 4-8 1996, Chicago, IL.

Session Chair, “Monte Carlo Markov: New Directions,” Joint Statistical Meetings, August 10-14 1997, Anaheim, CA.

Session Chair, “Bayesian Non-parametrics,” Joint Statistical Meetings, August 8-12 1999, Baltimore, MD.

Session Chair, “Bayesian Approaches to Repeated Measures,” Joint Statistical Meetings, August 5-9 2001, Atlanta, GA.

Session Chair, “Survival Analysis and Clinical Trials,” 2003 Eastern North American Region Spring Meetings of the International Biometric Society, March 30 - 2 April 2003, Tampa, FL.

Session Chair, “Bayesian Methods in Time Series,” Joint Statistical Meetings, August 3-7 2003, San Francisco, CA.

Representative for the Council of Chapters for the Twin Cities Chapter of the American Statistical Association, January 2002–December 2004.

Session Chair, “Functional and Structural Neuro-Imaging Data: Modeling and Inference,” Invited Session, 2007 Eastern North American Region Spring Meetings of the International Biometric Society, March 11-14, Atlanta, GA.

Invited Member, Advisory Board for the Medical Follow-up Agency (MFUA), Institute of Medicine, National Academy of Sciences, June 2003–present.

Service to Funding Organizations

Reviewer on the NIH (NINDS) Special Emphasis Panel “NeuroAIDS Studies,” August 2002, April 2003.

Reviewer on the NIH (NIAID) Special Emphasis Panel “Immune System Development and the Genesis of Asthma,” April 2004.

Reviewer for the Hong Kong Research Grants Council

Professional Memberships

American Statistical Association

Association for Women in Mathematics

International Biometric Society, Eastern North American Region

University of Minnesota Cancer Center