

Curriculum Vitae

Lynn E. Eberly, Ph.D.

Associate Professor
Division of Biostatistics
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- 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: April 29, 2010. * indicates activities since promotion to Associate Professor.

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 correlated data: medical structural or functional scans, 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, fMRI, etc.). My recent collaborative research has been in cancer, neurodegenerative disease, geriatric epidemiology, 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, Lioy 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. Sexton K, Adgate JL, **Eberly LE**, Clayton CA, Whitmore RW, Pellizzari ED, Lioy 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.
9. **Eberly LE** and Casella G (2003). "Estimating Bayesian credible intervals," *Journal of Statistical Planning and Inference*, **112**:115-132.
10. **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.
11. 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.

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, **Eberly LE**, and Matiak A (2003). "Variations in product choices of frequently purchased herbs: Caveat Emptor," *Archives of Internal Medicine*, **163**(19):2290-2295.
- *15. **Eberly LE** and Louis TA (2004). "Bayes/frequentist compromise decision rules," *Journal of Statistical Planning and Inference*, **121**(2):191-207.
- *16. 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.
- *17. 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.
- *18. **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.
- *19. **Eberly LE** (2004). "Consequences of event rate heterogeneity across non-randomized study sub-groups," *Statistics in Medicine*, **23**(13):2023-2036.
- *20. 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.
- *21. 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.
- *22. 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.
- *23. 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.
- *24. 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.
- *25. 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.

- *26. 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.
- *27. 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.
- *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 II. Salmonella shedding in calves. *Preventive Veterinary Medicine*, **70**(3-4):279-291.
- *29. 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.
- *30. 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.
- *31. **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.
- *32. **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.
- *33. 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.
- *34. 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.
- *35. 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.
- *36. 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.
- *37. 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.
- *38. Garrard JM, Harms S, **Eberly LE**, and Leppik I (2007). "Use of antiepileptic medications in nursing homes," *International Review of Neurobiology*, 81: 165-182.

- *39. 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.
- *40. 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.
- *41. Cho SJ, Ramachandran G, Grengs J, Ryan AD, **Eberly LE**, Adgate JL (2008). “Longitudinal evaluations of allergen and culturable fungal concentrations in inner-city households,” *Journal of Occupational and Environmental Hygiene*, 5(2): 107-119.
- *42. Gilby IC, **Eberly LE**, and Wrangham R (2008). “Economic profitability of social predation among wild chimpanzees: individual variation promotes cooperation,” *Animal Behaviour*, 75(2): 351-360.
- *43. Chen S, Wang C, **Eberly LE**, Caffo BS, Schwartz BS. “Adaptive Control of the False Discovery Rate in Voxel-Based Morphometry.” *Human Brain Mapping*, 2009; 30(7): 2304-2311.
- *44. MacNulty D, Smith D, Mech LD, **Eberly LE**. “Body size and predatory performance in wolves: is bigger better?” *Journal of Animal Ecology*, 2009; 78(3): 532-539.
- *45. Wang J, Kane RL, **Eberly LE**, Virnig BA, Chang LH. “The effects of resident and nursing home characteristics on Activities of Daily Living.” *Journals of Gerontology, Series A: Biological Science and Medical Science*, 2009; 64(4): 473-480.
- *46. Crum Cianflone C, **Eberly LE**, et al. “Is HIV becoming more virulent? Initial CD4 Cell Counts among HIV seroconverters during the course of the HIV epidemic: 1985-2007,” *Clin Infect Dis*, 2009; 48: 1285-1292.
- *47. 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,” *NMR in Biomedicine*, 2009; 22(7): 737-744.
- *48. Öz G, Kumar A, Rao JP, Kodl CT, Chow L, **Eberly LE**, and Seaquist ER. “Human brain glycogen metabolization during and following hypoglycemia,” *Diabetes*, 2009; 58(9): 1978-1985.
- *49. Ghomrawi HMK, Kane RL, **Eberly LE**, Bershady B, and Saleh K. “Patterns of functional improvement after revision knee arthroplasty,” *Journal of Bone and Joint Surgery*, Dec 2009 91(12): p. 2838.
- *50. Mosser A, Fryxell J, **Eberly LE**, and Packer C. “Serengeti real estate: a lion’s eye view of the savanna landscape,” *Ecology Letters*, 12(10): 1050-1060.
- *51. Murray C, Lonsdorf E, **Eberly LE**, Pusey A. “Reproductive Energetics in Free-living Female Chimpanzees (Pan troglodytes),” *Behavioral Ecology*, 20: 1211-1216.

- *52. Öz G, Nelson C, Koski D, Henry P-G, Marjanska M, Deelchand D, Shanley R, **Eberly L**, Orr H, and Clark H. “Noninvasive detection of pre-symptomatic and progressive neurodegeneration in a mouse model of spinocerebellar ataxia type 1,” *J Neuroscience*, 30(10): 3831-3838.
- *53. Crum-Cianflone NF, Roediger M, **Eberly LE**, Headd M, Marconi V, Ganesan A, Weintrob AC, Barthel RV, Fraser S, Agan BK. “Increasing Rates of Obesity among HIV-Infected Persons during the Epidemic,” *PLOS One* 2010, 5(4): e10106.
- *54. Forte ML, et al. “Ninety-day Intertrochanteric Hip Fracture Mortality: Does Provider Volume Matter?” *Journal of Bone and Joint Surgery*, in press.
- *55. Forte ML, et al. “Provider factors associated with intramedullary nail use for intertrochanteric hip fractures,” *Journal of Bone and Joint Surgery*, in press.
- *56. Ince NF, Gupte A, Wichmann T, Ashe J, Henry T, Bebler M, **Eberly L**, Abosch A. “Selection of Optimal Programming Contacts Based on Local Field Potential Recordings from Subthalamic Nucleus in Patients with Parkinson’s Disease,” *Neurosurgery*, in press.
- *57. Crum-Cianflone NF, Roediger M, **Eberly LE**, Vyas K, Landrum ML, Ganesan A, Weintrob AC, Barthel RV, Agan BK. “Obesity among HIV-Infected Persons: Impact of Weight on CD4 Cell Count,” *AIDS*, in press.
- *58. Crum-Cianflone NF, et al. “Are HIV-Positive Persons Progressing Faster After Diagnosis Over the Epidemic?” *JAIDS*, in press.
- *59. Öz G, Hutter D, Tkac I, Clark B, Gross M, Jiang H, **Eberly LE**, Bushara, Gomez CM. “Neurochemical alterations in Spinocerebellar Ataxia Type 1 and their correlation with clinical status,” *Movement Disorders*, in press.
- *60. Zapor MJ, Barber M, Summers A, Miller G, Feeney L, **Eberly LE**, Wortmann G. “In vitro activity of the aminoglycoside antibiotic arbekacin against *Acinetobacter baumannii*-calcoaceticus isolated from war wounded at Walter Reed Army Medical Center,” *Antimicrob Agents Chemother*, in press.

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.” Pp. 143-164 in Ambrosius WT (Editor), *Topics in Biostatistics*, New York: Humana Press.
- * 3. **Eberly LE** (2007). “Multiple Linear Regression.” Pp. 165-188 in Ambrosius WT (Editor), *Topics in Biostatistics*, New York: Humana Press.
- * 4. **Eberly LE**, Stamler J, Kuller LH, Neaton JD (2008). Multiple Risk Factor Intervention Trial (MRFIT). In: Wiley Encyclopedia of Clinical Trials. D’Agostino RB, Sullivan L, Massaro J, Eds. Hoboken, NJ: John Wiley & Sons, Inc.

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. 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.
- * 4. Prospective Studies Collaboration (2007). “Blood cholesterol and vascular mortality by age, sex, and blood pressure: a meta-analysis of individual data from 61 prospective studies with 55,000 vascular deaths,” *Lancet*, **370**:1829-1839.

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. 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 revision.
2. Leppik IE, Zhao L, **Eberly LE**, Harms S, Sperling J, and Garrard JM. “Patterns of anti-epileptic drug use at time of admission to nursing homes,” in revision.
3. Crum-Cianflone N, **Eberly LE**, et al. “Immunogenicity of a Monovalent 2009 Influenza A (H1N1) Vaccine in an Immune Compromised Population: A Prospective Study Comparing HIV-Infected to HIV-Uninfected Adults,” 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.

- *39. S Meisamy, A D McIntosh, C Corum, A Stycznski, P J Bolan, M G Garwood, et al. "Neoadjuvant chemotherapy of locally advanced breast cancer: Predicting response with quantitative in vivo 1H MR spectroscopy at 4 Tesla in 31 Patients," 2007 annual meetings of the Radiological Society of North America, 25-30 Nov 2007, Chicago, IL.
- *40. Donna Z. Bliss, Savik K, Harms S, **Eberly LE**, and Garrard J. "Race/ethnic differences in the prevalence of incontinence, perineal dermatitis and pressure ulcers in nursing home residents," Gerontological Society of America 60th Annual Scientific Meeting, 16-20 Nov 2007, San Francisco, CA.
- *41. Wang, J, Kane RL, **Eberly, LE**, Virnig BA, and Chang LH. "The effects of resident and nursing home characteristics on activities of daily living," poster presentation at the American Geriatric Society 2008 Annual Scientific Meeting, Washington, DC, May 2008.
- *42. Blair CK, Linabery AM, **Eberly L**, Georgieff M, Ross JA. "Pre-pregnancy weight, gestational weight gain and risk of infant leukemia," poster presentation by C Blair at the IARC-EACR-AACR-ECNIS Symposium on Integrative Molecular Epidemiology, Lyons, France, July 2008.
- *43. Wang J, Kane RL, **Eberly LE**, Virnig BA, and Chang LH. "Cognition Affects the Relationships between Impairments and Follow-up ADLs in Nursing Home Residents," paper presentation at the Gerontological Society of America 2008 Annual Meeting, National Harbor, Maryland, 21-25 Nov 2008.
- *44. **Eberly LE**, Birnbaum AK, Li S, Leppik IE. "MDS Indication of Epilepsy in Elderly Nursing Home Residents," poster presentation by IE Leppik at the American Medical Directors Association Annual Symposium, Charlotte, NC, 5-8 March 2009.
- *45. Brearley AM, **Eberly LE**, Mraz NR, Garwood M, and Bolan PJ. "Statistical modeling of Longitudinal Total Choline Measurements during Chemotherapy," poster presentation by PJ Bolan at the International Society for Magnetic Resonance in Medicine 17th Scientific Meeting and Exhibition, Honolulu, HI, 18-24 April 2009.
- *46. Birnbaum AK, Leppik IE, Harms SL, Li S, **Eberly LE**. "Prevalence of epilepsy as a comorbidity of neurological disorders in nursing home residents," platform session talk presented by IE Leppik at the American Academy of Neurology 61st Annual Meeting, Seattle, WA, 25 April - 2 May 2009.
- *47. Forte ML, Virnig BA, Swiontkowski MF, Bhandari M, Feldman R, **Eberly LE**, Kane RL. "Ninety-Day Intertrochanteric Hip Fracture Mortality: Does Provider Volume Matter?" poster presented by ML Forte at the 25th annual meeting of the Orthopaedic Trauma Association, San Diego, CA, 7-10 October 2009.
- *48. Crum-Cianflone NF, **Eberly LE**, Zhang Y, Ganesan A, Weintrob A, Marconi V, Barthel V, Lifson A, Agan B, Wegner S, and Dolan M. "Is HIV Becoming More Virulent? Initial CD4 Cell Counts among HIV Seroconverters Across the HIV Epidemic: 1985-2007," poster presented by N Crum-Cianflone at the 48th Annual ICAAC/IDSA 46th Annual Meeting, 25-28 October 2008, Boston, MA.
- *49. Crum-Cianflone NF, Roediger M, **Eberly LE**, Ganesan A, Weintrob A, Landrum M, Barthel RV, Vyas K, and Agan B. "Obesity among HIV-Infected Persons: Impact of Weight on CD4 Cell Counts," to be presented by NF Crum-Cianflone at the 47th Annual Meeting of the Infectious Diseases Society of America October 29 - November 1, 2009, Philadelphia, PA.

- ✠50. **Eberly LE**; Leppik IE; Harms SL; Thurman D; Virnig B; Tuite P; McCarten JR; Caplan L; Svendsen K; Li S; Garrard J. “Prevalence and functional burden of epilepsy in nursing home elderly,” poster presented by **LE Eberly** at the 2009 Annual Meeting of the American Epilepsy Society, 4-8 Dec 2009, Boston, MA.
- ✠51. Birnbaum, AK; Eberly, LE; Rarick, JO; Gramling-Aden, ML; Pettus, T.; McCarthy, T.; Lackner, T. Leppik, IE. “Depression as measured by the GDS-5 in elderly nursing home residents taking antiepileptic medications,” poster presented by AK Birnbaum at the 2009 Annual Meeting of the American Epilepsy Society, 4-8 Dec 2009, Boston, MA.
- ✠52. Leppik I, **Eberly LE**, Rarick JO, Gramling-Aden ML, McCarthy T, Lackner T, Birnbaum A. “Depression in elderly nursing home residents taking antiepileptic medications,” poster presented by IE Leppik at the 2010 Annual Meeting of the American Medical Directors Association, 11-14 March 2010, Long Beach, FL.
- ✠53. **Eberly LE**; Leppik IE; Svendsen K; Li S; Harms SL; Garrard J; Virnig BA. “Incident epilepsy/seizure disorder in US nursing homes by predisposing conditions, 2003-2007,” poster presented by IE Leppik at the American Academy of Neurology 62nd Annual Meeting, 10-17 April 2010.
- ✠54. Emir UE, Clark HB, Vollmers M, Koski DM, **Eberly LE**, Orr HT, Zoghbi HY, Oz G. “Detection of Early Neurochemical Changes related to Neurodegeneration in a Spinocerebellar Ataxia Type 1 (SCA1) Mouse Model by ¹H MRS at 9.4 Tesla,” oral presentation to be given by UE Emir at the International Society for Magnetic Resonance in Medicine 18th Scientific Meeting and Exhibition, May 2010.

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 2003 Joint Statistical Meetings, San Francisco, CA, August 3-7 2003.
- *15. **Eberly LE** and Caffo BS. "FDR Thresholding in a Neuroimaging Context," oral presentation given by **LE Eberly** at the 2008 Eastern North American Region Spring Meeting of the International Biometrics Society, Arlington, VA, March 16 - 19 2008.
- *16. **Eberly LE** and Caffo BS. "Adapting FDR Thresholding Procedures to Neuroimaging," oral presentation given by **LE Eberly** at the 2008 Joint Statistical Meetings, Denver, CO, August 3 - 7 2008.
- *17. **Eberly LE**. "Diffusion Tensor Imaging in the Brain: Overview," oral Topic Contributed presentation given by **LE Eberly** at the 2009 Joint Statistical Meetings, Washington, DC, August 2 - 6 2009.

- *18. Li Shuzhen and **Eberly LE**. “Enhanced Global Error Rate Control in Neuroimaging Data,” poster presentation given by S Li at the 2010 Eastern North American Region Spring Meeting of the International Biometrics Society, New Orleans, LA, March 21-24 2010.

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. Statistical Imaging Working Group, Department of Biostatistics, Johns Hopkins University, February 2007
- *17. Division of Epidemiology and Biostatistics, Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, March 2008

Research Grant Support

Current Support

- * 1. Henry M. Jackson Foundation research contract for the Infectious Disease Clinical Research Program Data Analysis Center, **Principal Investigator Dr. Lynn Eberly**, 35% effort. \$1.4 million direct costs over 18 months beginning June 2009.

- * 2. Cooperative Agreement Funding from ASPH and CDC/Epilepsy Program: Incidence of epilepsy/seizure and outcomes in nursing homes: a 5 year cohort. **Principal Investigator Dr. Lynn Eberly**, 35% effort. \$0.75 million direct costs over 3 years beginning June 2008.
- * 3. NIH (NINDS) R21 salary support from the Neurochemical Correlates of Pathology in Spinocerebellar Ataxia grant, P.I. Dr. Gulin Oz; **Dr. Lynn Eberly**, Statistician, 3% effort, July 2007 – June 2010.
- * 4. NIH (NIA) R01 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, 5% effort, Sept 2007 – June 2012.
- * 5. NIH R01 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 2010.
- * 6. American Diabetes Association salary support from the Hypoglycemia Unawareness in Patients with Type 1 Diabetes grant, P.I. Dr. Elizabeth Seaquist; **Dr. Lynn Eberly**, Co-Investigator, 5% effort, July 2009 – June 2013.
- * 7. NIH R21 salary support from the Improved Breast DCE MRI with SWIFT grant, P.I. Dr. Curt Corum. **Dr. Eberly**, Co-Investigator, 5% effort, Sept 2009 – Feb 2011.
- * 8. NIH R01 salary support from the Disparities in incontinence and perineal skin damages in nursing home elderly grant, P.I. Dr. Donna Bliss. **Dr. Eberly**, Co-Investigator, 5% effort, Sept 2009 – May 2014.

Past 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 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.
- *12. Salary support from the NCI/Comprehensive Cancer Center, University of Minnesota, Biostatistics Core, **Dr. Lynn Eberly**, 10% effort, Jan 2007 – May 2008.
- *13. 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, P.I. Dr. Gulin Oz; **Dr. Lynn Eberly**, Co-Investigator, 3% effort, Sept 2007 – May 2008.
- *14. NIH (NCI) salary support: “Thermochemical ablation in image-guided interventions: Initial assessment,” P.I. Dr. Erik Cressman; **Dr. Lynn Eberly**, Statistician, 2% effort, Apr 2008 - Jan 2009.
- *15. 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.
- *16. Henry M. Jackson Foundation salary support from the Infectious Disease Clinical Research Program Data Analysis Center, P.I. Dr. Alan Lifson; **Co-Principal Investigator Dr. Lynn Eberly**, 25% effort, Sept 2007 – May 2009.

Teaching and Advising

Teaching

I have taught both MS and PhD classes in Biostatistics, and introductory statistics classes for non-statistics students. I derive substantial enjoyment and personal satisfaction from my teaching, and I consistently receive very good to excellent reviews from student evaluations.

Courses Taught

- * 1. Biostatistics I: Descriptive statistics. Gaussian probability models, point/interval estimation for means/proportions. Hypothesis testing, including t, chi-square, and nonparametric tests. Simple regression/correlation. ANOVA. Health science applications using output from statistical packages.
2. Biostatistical Thinking: Guest lectures by Biostatistics Graduate Faculty and research staff in order to introduce students to potential Plan B or thesis advisors. Two writing projects.
- * 3. ANOVA and Experimental Design: Single factor ANOVA, diagnostics, classical non-parametrics, multifactor ANOVA, multiple comparisons, power and sample size determination, calculating expected mean squares, random/mixed effects models. ANOVA in regression notation. Randomized block designs, nested designs, repeated measures designs, cross-over designs. SAS and S-Plus used.
4. Regression: T-tests, confidence intervals, power, type I/II errors. Exploratory data analysis. Simple linear regression, regression in matrix notation, multiple regression, diagnostics. Ordinary least squares, violations, generalized least squares, nonlinear least squares regression. Introduction to General linear Model. SAS and S-Plus used.
- * 5. Methods for Correlated Data: Correlated data arising from data collected over time or space, group randomizations, cluster sampling, nested designs, or random effects assumptions. Modeling, analysis, and interpretation appropriate for such data, for normally or non-normally (e.g. binary, Poisson, gamma) distributed outcomes. Computing using SAS software.
6. Advanced Longitudinal Data Analysis: Methods of inference for outcome variables measured repeatedly in time or space. Linear/nonlinear models with either normal or non-normal error structures. Random effects. Transitional/marginal models with biomedical applications.

Awards

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

Course Evaluations

Course Title	Student Audience	Terms	Students Enrolled	Students Responded	Q1 median	Q2 median	Q3 median	Notes
* Biostatistics I	MPH/MS/PhD in allied health sciences	Fall 2007	71	57	5.6	6.4	5.3	
*		Fall 2008	59	42	5	6	5	C
*		Fall 2009	73	61	5	6	5	C
	Biostatistical Thinking	Fall 2001	32	26	5.8	6.3	4.4	
	ANOVA and Experimental Design	Fall 1999	23	22	5.3	6.1	5.2	
		Fall 2000	21	17	6.7	6.7	5.9	P
		Spring 2003	28	27	6.0	6.0	5.8	
*		Spring 2004	24	24	6.6	6.3	6.0	
*		Spring 2005	28	24	6.7	6.4	5.9	
*		Spring 2006	24	24	6.7	6.7	6.1	
	Regression	Winter 1998	10	9	5.0	4.0	5.0	Q
		Winter 1999	11	11	5.6	5.3	5.8	Q
	Methods for Correlated Data	Spring 2001	20		6.6	6.4	6.0	N
		Spring 2002	9	9	7.0	6.0	6.0	
*		Fall 2002	26	20	6.6	6.7	6.3	
*		Fall 2003	30	24	6.3	6.3	6.1	
*		Fall 2004	26	26	6.6	6.6	5.8	
*		Fall 2005	39	26	6.6	6.5	5.8	
		Fall 2007	40	30	6.8	6.8	6.2	
	Advanced Longitudinal Data Analysis	Spring Q 1999	11	11	5.3	5.6	4.3	
		Spring 2000	6	5	6.0	7.0	5.0	

Details on questions Q1 to Q3 are shown on the next page; in general, 1=lowest score and 6 or 7= highest score.

Notes: C = commendation letter received from the School of Public Health Dean and the Educational Policy Committee Chair for a public health core course exceptionally well taught; N = new course developed; P = partial responsibility (33%); Q = quarter not semester offering. Dr. Eberly had full responsibility for all courses not denoted with P.

For Fall 2007 and earlier, questions were:

Q1: "How would you rate the instructor's overall teaching ability?"

Q2: "How would you rate the instructor's respect and concern for students?"

Q3: "How much would you say you learned in this course?"

All questions were answered on the scale 1=very poor, 2, 3, 4=satisfactory, 5, 6, 7=exceptional.

For Fall 2008 and later, questions were:

Q1: "How would you rate the instructor's overall teaching ability?"

Q2: "The instructor treated me with respect."

Q3: "I have a deeper understanding of the subject matter as a result of this course."

Q1 was answered on the scale 1=very poor, 2=poor, 3=satisfactory, 4=very good, 5=excellent, 6=exceptional. Q2 and Q3 were answered on the scale of 1=strongly disagree to 6=strongly agree.

Advising and Mentoring

Thesis and non-thesis graduate student advising are summarized in the tables below. I have been Co-Principal Investigator for a T32 training grant in Biostatistics/HIV-AIDS. I currently fund and supervise 3 graduate student Research Assistants in Biostatistics (1 MS, 2 PhD).

I am Associate Mentor on an NIH K12 training grant for three clinician researchers. I mentor an additional two clinician researchers who have applied for NIH K23 training awards. All five of these clinician researchers are using medical imaging in their research.

As part of the IDCRP Data Analysis Center for which I am P.I., I supervise and mentor four junior Research Fellow MS statisticians; the Data Analysis Center additionally supports two Senior Research Fellows, one Senior Research Associate, and two School of Public Health faculty.

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
Brearly, Ann	MS	Jul 2008	Reliability of breast cancer MRS biomarker concentration measurements
Chang, Yanping	MS	Aug 2004	Epilepsy and its treatment in US nursing homes
Chen, Ning	MS	in prog.	Immortal time bias in epidemiological observational studies
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	Oct 2008	Self-rated health and depression: a cross-sectional study of women in rural Nicaragua
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
Zhi, Xin	PhD	Aug 2004	Frailty model selection with multiple frailties

Roles in Non-Thesis Advising and Student Committees

Advisee	Degree program	Degree	Date of completion	Role
Ariza-Nieto,Claudia Janeth	Ani Sci	Ph D	Jan 2006	PhD Prelim Member
Ariza-Nieto,Claudia Janeth	Ani Sci	Ph D	Jan 2006	PhD Final Reader
Konishi,Meng	Appl Econ	M S	Aug 2006	Master's Final Member
Ablorh,Akweley Dzomoh	Biostat	M S		Advisor
Cai,Haowen	Biostat	M S	Aug 2008	Master's Final Member
Cao,Qing	Biostat	M S	Jul 2006	Master's Final Member/Adv
Clothier,Barbara Ann	Biostat	M S	Jul 2001	Master's Final Chair/Adv
Dai,Yu	Biostat	M S	Aug 2002	Master's Final Member
Fan,Haiyun	Biostat	M S	Sep 2005	Master's Final Member
Fan,Ying	Biostat	M S	Sep 2004	Master's Final Member
Guo,Jia	Biostat	Ph D	Oct 2006	PhD Prelim Member
Guo,Jia	Biostat	Ph D	Oct 2006	PhD Final Member
Guo,Xu	Biostat	M S	Oct 2001	Master's Final Member
Hullsiek,Katherine Huppler	Biostat	Ph D	Oct 1999	PhD Prelim Member
Hullsiek,Katherine Huppler	Biostat	Ph D	Oct 1999	PhD Final Member
Imm,So Jung	Biostat	M S	Dec 2003	Master's Final Member/Adv
Li,Lin	Biostat	M S	Aug 2003	Master's Final Chair/Adv
Li,Lingzhi	Biostat	M S		Advisor
Li,Ruifeng	Biostat	M S	Nov 2001	Master's Final Member/Adv
Li,Shuzhen	Biostat	Ph D		PhD Prelim Chair/Advisor
Lin,E	Biostat	M S	Oct 2003	Master's Final Member
Liu,Chengcheng	Biostat	M S	Jul 2004	Master's Final Member
Liu,Xiao	Biostat	M S	Jul 2008	Master's Final Member
Lu,Haolan	Biostat	M S	Jul 2002	Master's Final Member
Mugglin,Andrew S	Biostat	Ph D	Feb 1999	PhD Final Member
Pruett,Khadeeja Mohamed	Biostat	M S	Mar 2003	Master's Final Member
Qi,Dongfeng	Biostat	M S	Jul 2003	Master's Final Chair/Adv
Schivitz,Elizabeth	Biostat	M S	Dec 2002	Master's Final Chair/Adv
Short,Margaret B	Biostat	Ph D	Oct 2003	PhD Prelim Member
Short,Margaret B	Biostat	Ph D	Oct 2003	PhD Final Reader
Xie,Benhuai	Biostat	M S	Nov 2007	Master's Final Chair/Adv
Xu,Lan	Biostat	M S	Jun 2000	Master's Final Chair/Adv
Zabor,Emily Craig	Biostat	M S		Advisor
Zhao,Luping	Biostat	M S	Aug 2005	Master's Final Member
Zhu,Li	Biostat	Ph D	Aug 2000	PhD Prelim Member
Zhu,Li	Biostat	Ph D	Aug 2000	PhD Final Member
Smith,Daniel J	Compt Sci	M S	Jun 2006	Master's Final Member
Murray,Carson M	Ecol	Ph D	Jul 2006	PhD Prelim Member
Murray,Carson M	Ecol	Ph D	Jul 2006	PhD Final Reader

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Advisee	Degree program	Degree	Date of completion	Role
Lonsdorf,Elizabeth Vinson	EEB	Ph D	Jun 2003	PhD Final Reader
Macnulty,Daniel Robert	EEB	Ph D	Jun 2007	PhD Prelim Member
Macnulty,Daniel Robert	EEB	Ph D	Jun 2007	PhD Final Reader
Wroblewski,Emily E	EEB	Ph D	Mar 2010	PhD Prelim Member
Wroblewski,Emily E	EEB	Ph D	Mar 2010	PhD Final Reader
Forte,Kristin A	Env Hlth	M S	Jun 1999	Master's Final Member
Grice,Mira Michelle	Env Hlth	Ph D	Jul 2007	PhD Prelim Member
Grice,Mira Michelle	Env Hlth	Ph D	Jul 2007	PhD Final Reader
Kukowski,Anne Elizabet	Env Hlth	M S	Jun 1998	Master's Final Member
Park, Ji Young	Env Hlth	Ph D	Aug 2009	PhD Prelim Member
Blair,Cynthia Kay	Epidemiol	Ph D		PhD Prelim Member
Blair,Cynthia Kay	Epidemiol	Ph D		PhD Final Reader
Chamberlain,Alanna	Epidemiol	Ph D	Nov 2009	PhD Prelim Member
Chamberlain,Alanna	Epidemiol	Ph D	Nov 2009	PhD Final Chair/Reader
Baines Simon,Alisha D	HlthSrvRPA	M S	May 2005	Master's Final Member
Butler,Mary E	HlthSrvRPA	Ph D	Mar 2007	PhD Prelim Member
Butler,Mary E	HlthSrvRPA	Ph D	Mar 2007	PhD Final Reader
Ghomrawi,Hassan	HlthSrvRPA	Ph D	Dec 2007	PhD Prelim Member
Nelson,Winnie Wai-Han	HlthSrvRPA	M S	Aug 2003	Master's Final Member
Nitz,Nicole M	HlthSrvRPA	Ph D	Jun 2005	PhD Prelim Member
Nitz,Nicole M	HlthSrvRPA	Ph D	Jun 2005	PhD Final Reader
Wang,Jye	HlthSrvRPA	Ph D	Apr 2007	PhD Prelim Member
Wang,Jye	HlthSrvRPA	Ph D	Apr 2007	PhD Final Reader
Barin,Burc	Math	M S	Jul 2003	Master's Final Member
Lamba,Manisha	S,A,C Phar	Ph D	Sep 2008	PhD Prelim Member
Lamba,Manisha	S,A,C Phar	Ph D	Sep 2008	PhD Final Reader
Salem,Ahmed Hamed Ahmed	S,A,C Phar	Ph D		PhD Prelim Member
Salem,Ahmed Hamed Ahmed	S,A,C Phar	Ph D		PhD Final Chair/Reader
Afleje,William D	Stat	M S	Jul 2006	Master's Final Member
Basak,Nandita	Stat	M S	Aug 2006	Master's Final Member
Borba de Andrade,Bernardo	Stat	Ph D	Jul 2007	PhD Prelim Member
Borba de Andrade,Bernardo	Stat	M S	Sep 2004	Master's Final Member
Chiang,Chee-Wai	Stat	M S	Aug 2001	Master's Final Member
Dobbin,Kevin K	Stat	Ph D	May 2001	PhD Prelim Member
Dobbin,Kevin K	Stat	Ph D	May 2001	PhD Final Reader
Kivilaid,Kaisa	Stat	M S	Oct 2005	Master's Final Member
Neath,Ronald Charles	Stat	Ph D	Aug 2006	PhD Prelim Member
Nienow,Aaron Kyle	Stat	M S	Jul 2006	Master's Final Member
Pham,Luu Duc	Stat	M S	Oct 2004	Master's Final Member
Pshon,Nicole Jean	Stat	M S	Aug 2005	Master's Final Member
Sartorius,Jennifer Alicia	Stat	M S	Jun 2004	Master's Final Member
Macnulty,Daniel Robert	Wild Cnsrv	M S	May 2002	Master's Final Member
Gilby,Ian C	Zool	Ph D	Nov 2004	PhD Final Reader

Professional Service

Refereeing of Publications

- * *American Journal of Epidemiology*
- American Statistician*
- Biometrical Journal*
- * *Bayesian Analysis*
- * *Biometrics*
- * *Circulation*
- * *Clinical Trials: Journal of the Society for Clinical Trials*
- Controlled Clinical Trials*
- Journal of Biopharmaceutical Statistics*
- * *Journal of Computational and Graphical Statistics*
- * *Journal of the American Statistical Association*
- * *Journal of the Royal Statistical Society - Series C*
- International Journal of Epidemiology*
- Lifetime Data Analysis*
- * *Mathematical Biosciences*
- * *Psychometrika*
- Statistical Science*
- * *Statistics in Medicine*
- * John Wiley & Sons,
- * Prentice Hall
- * Springer-Verlag

Service to Professional Organizations: Meetings and Boards

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.

- * Elected 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–December 2008.
- * Session Organizer, “Diffusion Tensor Imaging in the Brain,” Topic Contributed Session, 2009 Joint Statistical Meetings, August 2-6, Washington, DC.
- * Session Chair, “Statistical Analysis of Brain Imaging Data,” Invited Session, 2010 Eastern North American Region Spring Meetings of the International Biometric Society, March 21-24, New Orleans, LA.

Service to Funding Organizations: Grant Review

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

Reviewer on the NIH (NINDS) Special Emphasis Panel “NeuroAIDS Studies,” 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, May 2004.

Professional Memberships

American Statistical Association

Association for Women in Mathematics

International Biometric Society, Eastern North American Region

University of Minnesota Cancer Center