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EDUCATION

- 2000 Ph.D. Biostatistics, Johns Hopkins University School of Public Health
Thesis: *Template Mixture Models for Functional Brain Mapping*
Advisor: Scott L. Zeger
- 1996 Sc.M. Biostatistics, Johns Hopkins University School of Public Health
Thesis: *Latent Class Regression for Cross-Sectional and Longitudinal Multivariate Categorical Outcomes.*
Advisor: Karen Bandeen-Roche
- 1992 B.S. Zoology (cum laude with honors), University of Maryland at College Park

PROFESSIONAL EXPERIENCE

- 2009 - Present Senior Scientific Investigator, Group Health Research Institute (formerly the Center for Health Studies), Group Health Cooperative
- 2007 - 2008 Visiting Associate Professor, Division of Biostatistics, University of California San Francisco
- 2006 - Present Affiliate Associate Professor, Department of Biostatistics, University of Washington
- 2005 - 2009 Associate Scientific Investigator, Center for Health Studies, Group Health Cooperative
- 2000 - 2005 Assistant Scientific Investigator, Center for Health Studies, Group Health Cooperative
- 2000 - 2006 Affiliate Assistant Professor, Department of Biostatistics, University of Washington
- 1995 - 2000 Sr. Statistician/Programmer, Department of Neurology, Johns Hopkins University
- 1994 - 1995 Research Assistant, Johns Hopkins University School of Public Health
- 1993 - 1995 Data Analyst, Statistical Consulting Service, Beltsville Agricultural Research Center
- 1990 - 1993 Research Assistant, Department of Zoology, University of Maryland
- Summer 1992 Field Assistant, Poço das Antas Biological Reserve, Rio de Janeiro, and Una Biological Reserve, Bahia, Brazil

ACADEMIC HONORS

- National Institutes of Health Clinical Research Loan Repayment Program, 2003-2007
- International Biometrics Conference Travel Award for Young Investigators, 2002
- Margaret Merrell Award for Excellence in Research, Johns Hopkins University SPH, 2000
- NIH Traineeship on the Epidemiology and Biostatistics of Aging, 1996-2000
- Delta Omega, National Public Health Honorary Society, 2000
- International Biometric Society's ENAR Student Travel Award, 1997
- Biostatistics Departmental Scholarship, Johns Hopkins University SPH, 1994-1996
- Senior Summer Scholarship Recipient, University of Maryland at College Park, 1991
- NSF Research Experience for Undergraduates Program in Neurobiology and Ecology, 1991
- Phi Kappa Phi Honor Society, 1991
- Golden Key National Honor Society, 1990

PROFESSIONAL ACTIVITIES

Member, WNAR regional advisory board, 2009-2011
 American Statistical Association Biometrics Section Council of Sections Representative, 2007-2009
 National Mammography Database Planning Committee, 2007-2009
 David P. Byar Award Committee, Biometrics Section, American Statistical Association, 2007
 Faculty member, RSNA Clinical Trials Methodology Workshop, 2006-2010
 RSNA Test Performance Characteristics Core Curriculum Group, 2006-2007
 WNAR nominating committee, 2006
 Member, 2006 ENAR Junior Researcher Workshop Planning Committee, 2005
 Member, NIH Vision in Preschoolers Expert Panel, July 2005
 Ad-hoc Reviewer, NIH Special Emphasis Panel, Small Business Innovation Research, March and July 2002, March and September 2005
 Ad-hoc Reviewer, NCI Mammography Imaging P01 Panel, June 2004
 Member, Local Assistance Committee, 1999 Joint Statistical Meetings, 1999
 Member, American Statistical Association, 1994 – Present
 Member, The International Biometric Society Eastern North American Region, 1994 – Present
 Member, The International Biometric Society Western North American Region, 2000 – Present
 Member, International Society for Bayesian Analysis, 2001 – 2003
 Member, American Association for Cancer Research, 2004 – Present
 Member, Statistical Society of Canada, 2005 – Present
 Member, Society for Neuroscience, 2005 – 2006
 Referee for *AJR American Journal of Roentgenology*, *Annals of Internal Medicine*, *Canadian Journal of Statistics*, *Biometrics*, *Biostatistics*, *The Breast*, *Communications in Statistics*, *Health Services and Outcomes Research Methodology*, *Medical Care*, *Journal of the Royal Statistical Society C (Applied Statistics)*, *Psychological Methods*, *Radiology*, *Statistics in Medicine*, *Statistical Modelling*

PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Dietz JM, Baker AJ, **Miglioretti DL**. “Seasonal variation in reproduction, juvenile growth, and adult body mass in golden lion tamarins (*Leontopithecus rosalia*),” *American Journal of Primatology*, 34:115-132 (1994).
2. Boatman D, **Miglioretti DL**, Hart J, Lamberti N, Rothlisberger B, Gordon B. “Localization and variability in the cortical representation of auditory syllable discrimination and comprehension,” *Brain and Language*, 55(1):150-152 (1996).
3. Bandeen-Roche K, **Miglioretti DL**, Zeger SL, Rathouz P. “Latent variable regression for multiple discrete outcomes,” *Journal of the American Statistical Association*, 92(440):1375–1386 (1997).
4. Codori AM, Slavney PR, Young C, **Miglioretti DL**, Brandt J. “Predictors of psychological adjustment to genetic testing for Huntington’s disease,” *Health Psychology*, 16(1):36-50 (1998).
5. Rathouz PJ, Kasper JD, Zeger SL, Ferrucci L, Bandeen-Roche K, **Miglioretti DL**, Fried LP. “Short-term consistency in self-reported physical functioning among elderly women: the Women’s Health and Aging Study,” *American Journal of Epidemiology*, 147(8):764-773 (1998).
6. Hart J, Crone N, Lesser R, Sieracki J, **Miglioretti D**, Hall C, Sherman D, Gordon B. “Temporal dynamics of verbal object comprehension,” *Proceedings of the National Academy of Sciences*, 95:6498-6503 (1998).
7. Boatman D, Hart J, Lesser RP, Honeycutt N, Anderson NB, **Miglioretti D**, Gordon B. “Right hemisphere speech perception as revealed by amobarbital injection and electrical interference,” *Neurology*, 51(2):458-464 (1998).
8. Crone NE, **Miglioretti DL**, Gordon B, Sieracki JM, Wilson MT, Uematsu S, Lesser RP. “Functional

- mapping of human sensorimotor cortex with electrocorticographic spectral analysis I. Alpha and beta event-related desynchronization,” *Brain*, 121(12):2271-2299 (1998).
9. Crone NE, **Miglioretti DL**, Gordon B, Lesser RP. “Functional mapping of human sensorimotor cortex with electrocorticographic spectral analysis II. Event-related synchronization in the gamma band,” *Brain*, 121(12):2301-2315 (1998).
 10. Codori AM, Petersen GM, **Miglioretti DL**, Larkin EK, Bushey MT, Young C, Brensinger JD, Johnson K, Bacon JA, Booker SV. “Attitudes toward colon cancer gene testing: II. Factors predicting test uptake,” *Cancer Epidemiology, Biomarkers, and Prevention*, 8:345-351 (1999).
 11. Boatman D, Freeman J, Vining E, Pulsifer M, **Miglioretti D**, Minahan R, Carson B, Brandt J, McKhann G. “Language recovery after left hemispherectomy in children with late onset seizures,” *Annals of Neurology*, 46(4):579-586 (1999).
 12. Lesser RP, Kim SH, Beyderman L, **Miglioretti DL**, Webber WRS, Bare M, Cysyk B, Krauss G, Gordon B. “Brief bursts of pulse stimulation terminate afterdischarges due to cortical stimulation,” *Neurology*, 53(1):2073-2081 (1999).
 13. Boatman D, Gordon B, Hart J, Selnes O, **Miglioretti D**, Lenz F. “Transcortical sensory aphasia, revisited and revised,” *Brain*, 123(8):1634-1642 (2000).
 14. **Miglioretti DL**, McCulloch C, Zeger SL. “Template mixture models for Direct Cortical Electrical Interference Data,” *Biostatistics* 1(4): 403-421 (2000).
 15. Codori AM, Petersen GM, **Miglioretti DL**, Boyd, PA. “Health beliefs and endoscopic screening for colorectal cancer: potential for cancer prevention,” *Preventive Medicine*, 33:128-136 (2001).
 16. **Miglioretti DL**, McCulloch C, Zeger SL. “Combining images across multiple subjects: a study of direct cortical electrical interference,” *Journal of the American Statistical Association*, 97(457):125-135 (2002).
 17. Motamedi GK, Lesser RP, **Miglioretti DL**, Mizuno-Matsumoto Y, Gordon B, Webber WRS, Jackson DC, Sepkuty JP, Crone NE. “Optimizing parameters for terminating cortical afterdischarges with pulse stimulation,” *Epilepsia* 43(8):836-846 (2002).
 18. Elmore JG, **Miglioretti DL**, Reisch L, Barton M, Kreuter W, Christiansen CL, Fletcher S. “Community radiologists’ variability in false-positive mammography rates,” *Journal of the National Cancer Institute*, 94:1373-1380 (2002).
 19. Rutter CM, **Miglioretti DL**. “Estimating the accuracy of psychological scales using longitudinal data,” *Biostatistics*, 4(1):97-107 (2003).
 20. Codori A-M, Zawacki KL, Petersen GM, **Miglioretti DL**, Bacon JA, Trim bath JD, Booker SV, Picarello K, Giardiello FM. “Genetic testing for hereditary colorectal cancer in children: Long term psychological effects,” *American Journal of Medical Genetics*, 116(2):117-28 (2003).
 21. Carney PA, **Miglioretti DL**, Yankaskas BC, Kerlikowske K, Rosenberg R, Rutter C, Geller BM, Abraham LA, Taplin, SH, Dignan M, Cutter G, Ballard-Barbash R. “Individual and combined effects of age, breast density, and hormone replacement therapy use on the accuracy of screening mammography,” *Annals of Internal Medicine*, 138:168-175 (2003).
 22. John MT, **Miglioretti DL**, LeResche L, VonKorff M, Cathy W Critchlow. “Widespread pain as a risk factor for dysfunctional temporomandibular disorder pain,” *Pain*, 102:257-263 (2003).
 23. **Miglioretti DL**. “Latent transition regression for mixed outcomes,” *Biometrics*, 59:710-720 (2003).
 24. John MT, LeResche L, Koepsell TD, Hujoel P, **Miglioretti DL**, Micheelis W. “Oral health-related quality of life in Germany,” *European Journal of Oral Sciences*, 111(6):483-491 (2003).
 25. Smith-Bindman R, Chu PW, **Miglioretti DL**, Lovy KK, Sickles E, Blanks R, Ballard-Barbash R, Bobo J, Lee N, Wallis M, Patnick J, Kerlikowske K. “U.S.-U.K. comparison of screening mammography,” *Journal of the American Medical Association*, 290 (16):2129-2137 (2003).
 26. Kerlikowske K, **Miglioretti DL**, Ballard-Barbash R, Weaver DL, Buist DSM, Barlow W, Carney PA, Cutter G, Geller, BM, Rosenberg R, Yankaskas B, Taplin SH. “Prognostic characteristics of breast cancer among hormone replacement users in a screening population,” *J Clin Oncol*, 21(23):4314-4321 (2003).
 27. **Miglioretti DL**, Boatman D. “Modeling variability in cortical representations of human complex sound

- perception,” *Experimental Brain Research*, 153(3):382-387 (2003).
28. Mandelson MT, **Miglioretti DL**, Newcomb PA, Harrison R. “Hormone replacement therapy in relation to survival in women diagnosed with colon cancer,” *Cancer Causes and Control*, 14:979-984 (2003).
 29. John MT, Koepsell TD, Hujoel P, **Miglioretti DL**, LeResche L, Micheelis W. “Demographic factors, denture status and oral health-related quality of life,” *Community Dentistry and Oral Epidemiology*, 32(2):125-132 (2004).
 30. Buist DSM, Newton KM, **Miglioretti DL**, Beverly K, Connelly MT, Andrade S, Hartsfield CL, Wei F, Pettus PT, Chan KA, Kessler L. “Hormone therapy prescribing patterns in the United States,” *OBGYN*, 104(5):1042-1050 (2004).
 31. John MT, Hujoel P, **Miglioretti DL**, LeResche L, Koepsell TD, Micheelis W. “Dimensions of oral health-related quality of life,” *Journal of Dental Research*, 83(12):956-960 (2004).
 32. White E, **Miglioretti DL**, Yankaskas BC, Geller BM, Rosenberg RD, Kerlikowske K, Saba L, Vacek PM, Carney PA, Buist DSM, Oestreicher N, Barlow W, Ballard-Barbash R, Taplin SH. “Biennial versus annual mammography and the risk of late-stage breast cancer,” *Journal of the National Cancer Institute*, 96(24):1832-1839 (2004).
 33. **Miglioretti DL**, Rutter CM, Geller BM, Cutter G, Barlow WE, Rosenberg R, Weaver DL, Taplin SH, Ballard-Barbash R, Carney PA, Yankaskas B, Kerlikowske K. “The effect of breast augmentation on the accuracy of mammography screening and cancer characteristics,” *Journal of the American Medical Association*, 291(4):442-450 (2004).
 34. Sickles EA, **Miglioretti DL**, Ballard-Barbash R, Geller BM, Leung JWT, Rosenberg RD, Smith-Bindman R, Yankaskas BC. “Performance benchmarks for diagnostic mammography,” *Radiology*, 35(3):775-790 (2005).
 35. Newton KM, Buist DSM, **Miglioretti DL**, Beverly K, Connelly MT, Andrade S, Hartsfield CL, Wei F, Pettus PT, Chan KA, Kessler L. “The impact of comorbidities on hormone use after the 2002 release of the Women’s Health Initiative,” *Journal of General Internal Medicine*, 20(4):350-356 (2005).
 36. **Miglioretti DL**, Heagerty PJ. “Marginal modeling of multilevel binary data with time varying covariates,” *Biostatistics*, 5(3):381-398 (2004).
 37. Smith-Bindman R, Ballard-Barbash R, **Miglioretti DL**, Patnick J, Kerlikowske K. “Comparing the performance of mammography screening in the United States and the United Kingdom,” *Journal of Medical Screening*, 12(1):50-54 (2005).
 38. Codori AM, Waldeck T, Petersen GM, **Miglioretti DL**, Trim bath JD. “Genetic counseling outcomes: perceived risk and distress after counseling for hereditary colorectal cancer,” *Journal of Genetic Counseling*, 14(2):119-132 (2005).
 39. Von Korff M, Crane P, Lane M, **Miglioretti D**, Simon G, Saunders K, Stang P, Branderburg N, Kessler R. “Chronic spinal pain and physical-mental comorbidity in the United States: Results from the National Comorbidity Survey replication,” *Pain*, 113(3):331-339 (2005).
 40. Von Korff M, Balderson BHK, Saunders K, **Miglioretti DL**, Lin EHB, Berry S, Moore JE, Turner JA. “A trial of an activating intervention for chronic back pain in primary care and physical therapy settings,” *Pain*, 113(3):323-330 (2005).
 41. Smith-Bindman R, Chu P, **Miglioretti DL**, Quale C, Rosenberg RD, Cutter G, Geller B, Bacchetti P, Sickles EA, Kerlikowske K. “Physician predictors of mammographic accuracy,” *Journal of the National Cancer Institute*, 97(5):358-367 (2005).
 42. Cronin KA, Binbing Y, Krapcho M, **Miglioretti DL**, Fay MP, Izmirlan G, Ballard-Barbash R, Geller BM, Feuer EJ. “Modeling the dissemination of mammography in the United States,” *Cancer Causes and Control*, 16(6):701-712 (2005).
 43. Boatman DF, **Miglioretti DL**. “Cortical sites critical for speech discrimination in normal and impaired listeners,” *Journal of Neuroscience*, 25(23):5475-5480 (2005).
 44. Von Korff M, **Miglioretti DL**. “A prognostic approach to defining chronic pain,” *Pain*, 117:304-313 (2005).
 45. Wei F, **Miglioretti DL**, Connelly MT, Andrade SE, Newton KM, Hartsfield CL, Chan KA, Buist DSM.

- “Changes in women’s use of hormones use after the Women's Health Initiative Estrogen and Progestin trial by race, education, and income,” *Journal of the National Cancer Institute Monograph*, 35:106–112 (2005).
46. Sherman KJ, Cherkin DC, Erro J, **Miglioretti DL**, Deyo RA. “Comparing yoga, exercise, and a self-care book for chronic low back pain: a randomized, controlled trial,” *Annals of Internal Medicine*, 143(12):849-856 (2005).
 47. John MT, **Miglioretti DL**, LeResche L, Koepsell TD, Hujoel P, Micheelis W. “German short forms of the Oral Health Impact Profile,” *Community Dentistry and Oral Epidemiology*, 34(4):277-288 (2006).
 48. Boatman DF, Lesser RP, Crone N, Krauss G, Lenz F, **Miglioretti DL**. “Speech recognition impairments in patients with right temporal lobe epilepsy,” *Epilepsia*, 47(8):1397-401 (2006).
 49. Haas JS, Geller B, **Miglioretti DL**, Buist DSM, Nelson DE, Kerlikowske K, Carney PA, Breslau ES, Dash S, Canales MK, Ballard-Barbash R. “Changes in the newspaper coverage of hormone therapy with the release of new medical evidence,” *Journal of General Internal Medicine*, 21(4):304-309 (2006).
 50. Simon GE, Von Korff M, Saunders K, **Miglioretti DL**, Crane PK, van Belle G, Kessler RC. “Association between obesity and psychiatric disorders in the US adult population,” *Archives of General Psychiatry*, 63(7):824-830 (2006).
 51. Smith-Bindman R, **Miglioretti DL**, Lurie N, Abraham L, Ballard-Barbash R, Strzelczyk J, Dignan M, Barlow W, Beasley CM, Kerlikowske K. “Does utilization of screening mammography explain racial and ethnic differences in breast cancer?” *Annals of Internal Medicine*, 144:541-553 (2006).
 52. Buist DSM, Aiello EJ, **Miglioretti DL**, White E, “Mammographic breast density, dense area and breast area differences by phase in the menstrual cycle,” *Cancer Epidemiology, Biomarkers and Prevention*, 11:2303-2306 (2006).
 53. Harel O, **Miglioretti DL**. “Latent class analysis and the rate of missing information,” *Journal of Data Science*, 5(2):269-288 (2007).
 54. Rutter CM, Yu O, **Miglioretti DL**. “A hierarchical non-homogenous Poisson model for meta-analysis of adenoma counts,” *Statistics in Medicine*, 26:98-109 (2007).
 55. Carney PA, Abraham LA, **Miglioretti DL**, Yabroff KR, Sickles EA, Buist DSM, Kasales CJ, Geller BM, Yankaskas BC, Rosenberg RD, Dignan MB, Weaver DL, Kerlikowske K. “Factors associated with imaging and procedural events used to detect breast cancer following screening mammography,” *AJR American Journal of Roentgenology*, 188(2):385-392 (2007).
 56. **Miglioretti DL**, Heagerty PJ. “Marginal modeling of non-nested multilevel data using standard software,” *American Journal of Epidemiology*, 165:453-463 (2007).
 57. Carney PA, Yi J, Abraham LA, Gerrity, MS, Berns E, Sickles EA, **Miglioretti DL**, Aiello E, Elmore JG. “Reactions to uncertainty and the accuracy of diagnostic mammography,” *Journal of General Internal Medicine*, 22(2):234-41 (2007).
 58. Haas JS, **Miglioretti DL**, Geller B, Buist DSM, Nelson DE, Kerlikowske K, Carney PA, Dash S, Breslau ES, Ballard-Barbash R, “Average household exposure to newspaper coverage about the harmful effects of hormone therapy and population-based declines in hormone therapy use,” *Journal of General Internal Medicine*, 22(1):68-73 (2007).
 59. Jiang Y, **Miglioretti DL**, Metz CE, Schmidt RA. “Breast cancer detection rate: designing imaging trials to demonstrate improvements.” *Radiology*, 243(2):360-367 (2007).
 60. Boatman DF, **Miglioretti DL**, Eberwein C, Alidoost M, Reich SG. “How accurate are bedside hearing tests,” *Neurology*, 68(16):1311-1314 (2007).
 61. Boudreau DM, Yu O, **Miglioretti DL**, Buist DSM, Heckbert SR, Daling JR, “Statin use and breast cancer risk in a large population-based setting,” *Cancer Epidemiology, Biomarkers and Prevention*, 16(3): 416-421 (2007).
 62. Kerlikowske K, Ichikawa L, **Miglioretti DL**, Buist DSM, Vacek PM, Smith-Bindman R, Yankaskas BC, Carney P, Ballard-Barbash R, “Longitudinal Measurement of Clinical Mammographic Breast Density to Improve Estimation of Breast Cancer Risk,” *Journal of the National Cancer Institute*, 99(5):386-395 (2007).

63. Kerlikowske K, **Miglioretti DL**, Buist DSM, Walker R, Carney PA. "Declines in invasive breast cancer and use of postmenopausal hormone therapy in a screening mammography population." *Journal of the National Cancer Institute*, 99(17):1335-9 (2007).
64. Hwang ES, **Miglioretti DL**, Ballard-Barbash R, Weaver DL, Kerlikowske K. "Association between breast density and subsequent breast cancer events following treatment for ductal carcinoma *in situ*," *Cancer Epidemiology, Biomarkers and Prevention*, 16(12):2587-93 (2007).
65. **Miglioretti DL**, Smith-Bindman R, Abraham L, Brenner JD, Aiello E, Buist DSM, Carney PA, Elmore JG. "Radiologist characteristics associated with interpretive performance of diagnostic mammography," *Journal of the National Cancer Institute*, 99(24):1854-63 (2007).
66. Goldman LE, Haneuse SJPA, **Miglioretti DL**, Kerlikowske K, Buist DSM, Yankaskas B, Smith-Bindman R. "An assessment of the quality of mammography care at facilities treating medically vulnerable populations," *Medical Care*, 46(7): 701-708 (2007).
67. **Miglioretti DL**, Brown ER. "A marginalized diffusion model for estimating age at first lower endoscopy use from current-status data," *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 57(1):61-74 (2008).
68. Smith-Bindman R, **Miglioretti DL**, Rosenberg R, Reid R, Taplin S, Geller B, Kerlikowske K. "Physician workload in mammography," *AJR American Journal of Roentgenology*, 190(2):536-32 (2008).
69. Aiello Bowles EJ, **Miglioretti DL**, Sickles EA, Abraham L, Carney PA, Yankaskas BC, Elmore JG. "Accuracy of short-interval follow-up mammograms by patient and radiologist characteristics," *AJR American Journal of Roentgenology*, 190(5):1200-8 (2008).
70. Boudreau DM, Yu O, Buist DSM, **Miglioretti DL**. "Statin use and prostate cancer risk in a large population based setting" *Cancer Causes and Control*, 19:767-74 (2008) [Epub March 6, 2008].
71. Lesser RP, Lee HW, Webber WRS, Prince B, Crone N, **Miglioretti DL**. "Short-term variations in response distribution to cortical stimulation," *Brain*, 131(6):1528-39 (2008) [Epub Mar 12, 2008].
72. **Miglioretti DL**, Rutter CM, Bradford SC, Zauber AG, Kessler LG, Feuer EJ, Grossman DC. "Improvement in the diagnostic evaluation of a positive fecal occult blood test in an integrated health care organization," *Medical Care*, 46(9 Suppl 1):S91-6 (2008).
73. Smith-Bindman RS, **Miglioretti DL**, Larson E. "Rising use of diagnostic medical imaging in a large integrated health system," *Health Affairs*, 27(6):1491-502 (2008).
74. Kerlikowske K, Walker R, **Miglioretti DL**, Desai A, Ballard-Barbash R, Buist DS for the National Cancer Institute-Sponsored Breast Cancer Surveillance Consortium. "Obesity, Mammography Use and Accuracy, and Advanced Breast Cancer Risk," *Journal of the National Cancer Institute*, 100(23):1724-33 (2008).
75. Sherman KJ, Cherkin DC, Hawkes R, **Miglioretti DL**, Deyo RA. "Randomized controlled trial of massage versus self-care for chronic neck pain," *Clinical Journal of Pain*, 25(3):233-8 (2009).
76. **Miglioretti DL**, Haneuse SJPA, Anderson M, "Statistical approaches for modeling radiologists' interpretive performance," *Academic Radiology*, 16(2):227-38 (2009).
77. Dick JF, Gallagher TH, Brenner RJ, Yi JP, Reisch LM, Abraham L, **Miglioretti DL**, Carney PA, Elmore JG. "Predictors of radiologists' perceived risk of malpractice lawsuits in breast imaging," *AJR American Journal of Roentgenology*, 192(2):327-33 (2009).
78. Jenkins JR, Graff JJ, **Miglioretti DL**. "Estimating reading growth using intermittent CBM progress monitoring," *Exceptional Children*, 75(2):151-163 (2009).
79. Sinai A, Crone NE, Wied HM, Franaszczuk PJ, **Miglioretti D**, Boatman-Reich D. "Intracranial mapping of auditory perception: event-related responses and electrocortical stimulation." *Clinical Neurophysiology*, 120(1):140-9. (2009). [Epub Dec 11, 2008]
80. Geller BM, Bowles EJA, Sohng HY, Brenner RJ, **Miglioretti DL**, Carney PA, Elmore JG. "Radiologists' performance and their enjoyment of interpreting screening mammograms," *AJR American Journal of Roentgenology*, 192(2):361-9 (2009).
81. Yu O, Boudreau DM, Buist DSM, **Miglioretti DL**. "Statin use and female reproductive organ cancer

- risk in a large population-based setting,” *Cancer Causes and Control*, 20(5):609-16 [Epub Nov 30, 2008]
82. Rutter CM, **Miglioretti DL**, Savarino J. “Bayesian microsimulation model calibration,” *Journal of the American Statistical Association*, (In Press).
 83. Carney PA, Kettler M, Cook AJ, Geller BM, Karliner L, **Miglioretti DL**, Bowles EA, Buist DS, Gallagher TH, Elmore JG. “An assessment of the likelihood, frequency, and content of verbal communication between radiologists and women receiving screening and diagnostic mammography,” *Academic Radiology*, 16(9):1056-1063 (2009) [Epub May 11, 2009].
 84. Abraham L, Geller BM, Yankaskas BC, Bowles EJ, Karliner LS, Taplin SH, **Miglioretti DL**. “Accuracy of self-reported breast cancer among women undergoing mammography,” *Breast Cancer Research and Treatment* (In Press), [Epub Mar 20, 2009].
 85. Cronin KA, **Miglioretti DL**, Krapcho M, Yu B, Geller BM, Carney PA, Onega T, Feuer EJ, Breen N, Ballard-Barbash R. “Bias associated with self-report of prior screening mammography,” *Cancer Epidemiol Biomarkers Prev*, 18(6):1699-705 (2009).
 86. Gallagher TH, Cook AJ, Brenner J, Carney PA, **Miglioretti DL**, Geller B, Kerlikowske K, Onega T, Rosenberg RD, Yankaskas B, Lehman CD, Elmore JG. “Disclosing harmful mammography errors to patients,” *Radiology*, (In Press), [Epub Aug 25, 2009].
 87. Cook AJ, Elmore JG, **Miglioretti DL**, Sickles EA, Bowles EJA, Cutter GR, Carney PA. “Influence of patient risk factors on the interpretation of community-based screening mammography,” *Journal of Clinical Epidemiology*, (In Press). [Epub Sept 8, 2009].
 88. Hubbard RA, **Miglioretti DL**, Smith RA, “Modeling the cumulative risk of a false-positive screening test,” *Statistical Methods in Medical Research*, (In Press).
 89. **Miglioretti DL**, Gard CC, Carney PA, Onega T, Buist DSM, Sickles EA, Kerlikowske K, Rosenberg RD, Yankaskas BC, Geller BM, Elmore JG. “When radiologists perform best: The learning curve in screening mammography interpretation,” *Radiology* (In Press). [Epub Sep 29, 2009]
 90. Elmore JG, Jackson S, Abraham L, **Miglioretti DL**, Carney PA, Geller B, Yankaskas BC, Kerlikowske K, Onega T, Rosenberg RD, Sickles EA, Buist DSM. “Variability in interpretive performance of screening mammography and radiologist characteristics associated with accuracy,” *Radiology* (In Press).
 91. Menes T, Kerlikowske K, Jaffer S, Seger D, and **Miglioretti DL**. “Trends in atypical ductal hyperplasia: decrease in rates with decreased use of post-menopausal hormone treatment,” *Cancer, Epidemiology, Biomarkers, and Prevention* (In Press).
 92. Smith-Bindman R, Lipson J, Marcus R, Pyo Kim K, Mahadevappa M, Gould R, Berrington de Gonzalez A, **Miglioretti DL**, “Radiation dose associated with common computed tomography examinations and the associated lifetime attributable risk of cancer,” *Archives of Internal Medicine*, (In Press).
 93. Carney PA, Sickles EA, Monsees B, Bassett L, Brenner RJ, Feig SA, Smith RA, Rosenberg R, Bogart TA, Browning S, Barry JW, Kelly MM, Tran K, **Miglioretti DL**. “Identifying minimally acceptable interpretive performance criteria for screening mammography,” *Radiology*, (In Press).
 94. Lee HW, Webber WRS, Crone N, **Miglioretti DL**, Lesser R. “When is electrical cortical stimulation more likely to produce afterdischarges?” *Clinical Neurophysiology*, (In Press).
 95. Bowles EJA, Sickles EA, **Miglioretti DL**, Carney PA, Elmore JG, “Recommendation for short-interval follow-up exams after a probably benign assessment – is clinical practice consistent with BI-RADS® guidance?” *AJR American Journal of Roentgenology*, (In Press).

MANUSCRIPTS UNDER REVIEW/REVISION

1. Kerlikowske K, Cook AJ, Buist DSM, Cummings SR, Vachon C, Vacek P, **Miglioretti DL**, “Breast cancer risk by breast density, age, menopause, and postmenopausal hormone therapy use,” *JCO*, (*In Review*).
2. Phipps AI, Ichikawa L, Bowles EJA, Carney PA, Geller BM, Kerlikowske K, **Miglioretti DL**, Buist DSM, for the Breast Cancer Surveillance Consortium. “Defining menopausal status in epidemiologic studies: an applied comparison of multiple approaches,” *Epidemiology*, (*In Review*).

MANUSCRIPTS IN PREPARATION

1. Onega T, Bowles EJA, **Miglioretti DL**, Carney PA, Geller BM, Yankaskas BC, Kerlikowske K, Sickles EA, Elmore JG. Radiologists’ perceptions of computer aided detection versus double reading for mammography interpretation.
2. **Miglioretti DL**, Haneuse SJA, McCulloch CE, Neuhaus JM. “Discrepant marginal and conditional analyses in settings where random effect variances depend on covariates.”
3. **Miglioretti DL**, Zhang Z, Brown ER. “A latent class survival model for screening patterns.”
4. White E, **Miglioretti DL**, Zhang T, Taplin S, Geller BM, Dignan M, Rosenberg RD. “Accuracy of mammography by week of menstrual cycle.”
5. Harel O, Hwan C, **Miglioretti DL**. “Properties of latent class regression with incomplete data sets.”
6. Carney PA, Cook AJ, Bowles EA, Geller B, **Miglioretti D**, Kerlikowske K, Kettler M, Onega T, and Elmore J. “Use of clinical history in the interpretation of screening mammography in community-based settings”
7. Cox B, Ballard-Barbash B, Broeders M, Dowling E, Malila N, Shumak R, Taplin S, Buist D, **Miglioretti DL** for the International Cancer Screening Network. “Recording of hormone therapy and breast density in breast screening programs: summary and recommendations of the International Cancer Screening Network,” *Breast Cancer Research and Treatment*.

OTHER PUBLICATIONS (PROCEEDINGS, BOOK CHAPTERS, EDITORIALS, LETTERS)

1. Crone NE, Hart J, Hao L, **Miglioretti DL**, Lesser RP, Gordon B. “Functional mapping of word production in human sign language using electrocorticographic spectral analysis,” *Neurology*, 52 (Suppl 2): A233 (1999).
2. Gordon B, Boatman D, Hart J, **Miglioretti D**, Lesser R. “Direct cortical electrical interference (Stimulation).” In R. S. Berndt (Ed). *Handbook of Neuropsychology, 2nd Edition, Vol. 3*, Elsevier Science: 375-391 (2001).
3. Boatman D, Eberwein C, **Miglioretti D**, Alidoost M, & Reich S. “Evaluation of bedside tests of hearing,” *Neurology*, 56(Suppl 3): 30 (2001).
4. Elmore JG, **Miglioretti DL**, Carney PA. “Does practice make perfect when interpreting mammography? Part II,” Editorial, *Journal of the National Cancer Institute*, 95: 250-252 (2003).
5. **Miglioretti DL**, Kerlikowske K, “Effects of breast augmentation on accuracy of mammography—Reply letter,” *Journal of the American Medical Association*, 291: 2073-2074 (2004).
6. Kerlikowske K, **Miglioretti DL**, “Effects of estrogen-only treatment in postmenopausal women—Letter to the editor,” *Journal of the American Medical Association*, 292: 685-686 (2004).
7. Yankaskas BC, Schell MJ, **Miglioretti DL**, “Recall and detection rates in screening mammography—Letter to the editor,” *Cancer*, 101(11): 2710-2711 (2004).
8. Von Korff M, **Miglioretti DL**. “A prospective approach to defining chronic pain,” *Proceedings of the*

- 11th World Congress on Pain of the International Association for the Study of Pain* H Flor (Ed). IASP Press: 761-769 (2006)
9. Jiang Y, **Miglioretti DL**, Metz CE, Schmidt RA. Letter to the editor author response to Ciatto S, re Designing breast screening imaging trials. *Radiology* 243:360-367, 2007. [online, e-letter <http://radiology.rsnajnl.org/cgi/eletters/243/2/360>] (June 25, 2007)
 10. Jiang Y, **Miglioretti DL**, Metz CE, Schmidt RA. Letter to the editor author response to Kopans, re Designing breast screening imaging trials. *Radiology* 243:360-367, 2007 (February 2008).
 11. Kerlikowske K, Buist DSM, Walker R, **Miglioretti DL**. Letter to the editor response to Vaidya and Caan, re “Declines in invasive breast cancer and use of postmenopausal hormone therapy in a screening mammography population.” *Journal of the National Cancer Institute*, 99(17):1335-9, 2007, 2007 Dec 5;99(23):1815-6; author reply 1816-7. Epub 2007 Nov 27.
 12. Carrell D, **Miglioretti D**, Smith-Bindman R. Coding free text radiology reports using the cancer Text Information Extraction System (caTIES). *AMIA Annu Symp Proc*. 2007 Oct 11:889.

PRESENTATIONS

1. “Latent variable regression for multiple longitudinal categorical outcomes,” Presentation at the *International Biometric Society ENAR Spring Meeting*, Memphis, Tennessee (March 1997).
2. “Image analysis for direct cortical electrical interference data,” Invited presentation at the *Workshop on Statistics of Brain Mapping*, Montreal, Quebec (June 1998).
3. “Template mixture models for image analysis,” Invited presentation at the *Workshop on Models and Methods for Spatial and Spatio-Temporal Data*, Munich, Germany (October 1998).
4. “Template mixture models for high-level spatial analysis,” Presentation at the *International Biometric Society ENAR Spring Meeting*, Atlanta, Georgia (March 1999).
5. “Template Mixture Models for Functional Brain Mapping,” Invited presentation at the *Johns Hopkins University 81st Anniversary Biostatistics Symposium*, Baltimore, Maryland (August 1999).
6. “High-Level Spatial Analysis of Data from Multiple Sources,” Presentation at the *Joint Statistical Meetings*, Baltimore, MD (August 1999).
7. “Template Mixture Models for Functional Brain Mapping,” Invited seminar presented at the *Center for Health Studies*, Seattle, Washington (November 1999).
8. “Latent class regression for cross-sectional and longitudinal multivariate outcomes,” Seminar presented at the *Center for Health Studies*, Seattle, Washington (July 2000).
9. “Combining images across multiple subjects: a study of direct cortical electrical interference,” Seminar presented at University of Washington, Department of Biostatistics, Seattle, WA (October 2000).
10. “Latent transition regression for mixed outcomes with differential measurement,” Invited presentation at the *International Biometric Society ENAR Spring Meeting*, Charlotte, NC (March 2001).
11. “Estimating mammographic accuracy in a repeatedly screened population,” Invited presentation at the *HMO Research Network Conference*, Seattle, WA (April 2001).
12. “Latent Transition Regression for Longitudinal Disability Data: Emerging Solutions to Difficult Analytic Problems,” Invited talk presented at the *World Psychiatric Association Section on Epidemiology and Public Health Scientific Meeting*, Baltimore, MD (June 2001).
13. “Evaluating latent transition regression models for mixed outcomes,” Invited presentation at the *Society for Prevention Research 10th Annual Meeting*, Seattle WA (May 2002).
14. “Latent transition regression for mixed outcomes,” Presentation at the *Hawaii International Conference on Statistics*, Waikiki, HI (June 2002).
15. “Latent transition regression for mixed outcomes,” Presentation at the *International Biometrics Conference*, Freiburg, Germany (July 2002).
16. “A marginalized multilevel modeling approach for clustered longitudinal binary data with time dependent covariates,” Invited presentation at the *International Biometric Society ENAR Spring Meeting*, Tampa, FL

- (April 2003).
17. "Template mixture models for high-level spatial analysis," Invited seminar presented at Brown University, Providence, RI (April 2003).
 18. "Estimating the accuracy of mammography from a repeatedly screened population," Invited presentation at the *Joint Statistical Meetings*, San Francisco, CA (August 2003).
 19. "The Breast Cancer Surveillance Consortium and marginal modeling of multilevel binary outcomes" Invited seminar presented at Brown University, Providence, RI (October 2004).
 20. "A marginalized diffusion model for combining state and national level survey data," Presentation at the *International Biometric Society ENAR Spring Meeting*, Austin, TX (March 2005).
 21. "A marginalized diffusion model for combining state and national level survey data to estimate screening trends," Invited presentation at the *Statistical Society of Canada Annual Meeting*, Saskatoon, SK (June 2005).
 22. "An analytic framework for screening," Invited presentation at the *Vision in Preschoolers Study Expert Panel Meeting*, Bethesda, MD (July 2005).
 23. "Latent transition regression for mixed outcomes," Invited seminar presented at the University of Pennsylvania Center for Clinical Epidemiology and Biostatistics, Philadelphia, PA (February, 2006).
 24. "A marginalized diffusion model for estimating age at first screening test from current-status data," Invited seminar presented at the Department of Statistics, Middle East Technical University, Ankara, Turkey (August 2007).
 25. "Modeling the dissemination of a screening test (and other interests)," Invited seminar presented at the Division of Biostatistics, University of California, San Francisco (December 2007).
 26. "Discrepant marginal and conditional analyses in settings where random effect variances depend on covariates," Invited seminar presented at the Division of Biostatistics, University of California, San Francisco (April 2008).
 27. "Statistical methods for evaluating mammography interpretive performance," Presentation at the International Cancer Screening Network Meetings, Helsingør, Denmark (June, 2008).
 28. "Discrepant marginal and conditional analyses in settings where random effect variances depend on covariates," Invited seminar presented at the Department of Health Studies, University of Chicago, Chicago, IL (October 2008).
 29. "Discrepant marginal and conditional analyses in settings where random effect variances depend on covariates," Invited seminar presented at the Fred Hutchinson Cancer Research Center, Seattle, WA (November 2008).
 30. "Discrepant marginal and conditional analyses in settings where random effect variances depend on covariates," Invited seminar presented at the Medical University of South Carolina, Charleston, SC (March 2009).

POSTERS

1. Hall CB, **Miglioretti DL**, Crone NC, Sieracki JM, Sherman DL, Gelfand AE. "Detection of change points in the frequency spectra of ECoG recordings," Poster presented at *Modelling Longitudinal and Spatially Correlated Data: Methods, Applications, and Future Directions*, Nantucket, Massachusetts (October 1996).
2. **Miglioretti D**, Gordon B, Boatman D. "Cortical language mapping using template mixture models," Poster presented at *Society for Neuroscience 29th Annual Meeting*, Miami, Florida (October 1999).
3. **Miglioretti DL**, McCulloch C, Zeger SL. "Combining images across multiple subjects: A study of direct cortical electrical interference," *International Biometric Society Eastern North American Region Spring Meeting*, Charlotte, North Carolina (March 2001).
4. **Miglioretti DL**, McCulloch C, Zeger SL. "Combining images across multiple subjects: A study of direct cortical electrical interference," *Second Seattle Symposium in Biostatistics: Analysis of Correlated Data*,

Seattle, Washington (November 2000).

TEACHING EXPERIENCE

Teaching

Department of Health Services, University of Washington

- Community Oriented Public Health Practice Project Based Learning Block, Biostatistics Component (Fall 2002/Winter 2003, Winter 2004, Winter 2005)

Department of Statistics, Middle East Technical University, Ankara, Turkey

- Graduate Summer School on Recent Advances in Statistics, Latent Class and Latent Transition Regression Module (August 2007)

Radiological Society of North America Clinical Trials Methodology Workshop (2006-2008)

Teaching Assistantships

Department of Biostatistics, Johns Hopkins School of Public Health

- Introduction to Biostatistics I, II, III, and IV
- Advanced Generalized Linear Models III and IV
- Longitudinal Data Analysis
- Statistics for Psychosocial Research

Department of Zoology, University of Maryland at College Park

- Animal Diversity Laboratory

STUDENT ADVISING

PhD Committees

Mike John (Epidemiology 2002), Jon Schildcrout (Biostatistics 2003-2004), Charlotte Gard (Biostatistics 2007-present)

Masters Students

Zhuo (Tracy) Zhang (Biostatistics 2003-2004); Eunyoung Lim (MPH-COPHP 2004-2005)

FUNDING HISTORY

Current Grants

“Statistical Coordinating Center for the Breast Cancer Surveillance Consortium,” NCI U01 CA86076

Principal Investigator: Diana Miglioretti, \$2,935,409 total direct costs, 8/01/2005-7/31/2010

Role: Principal Investigator

“Assessing and Improving Radiologist's Mammography Interpretive Skills,” SIRGS-07-271-01

Principal Investigator: Diana Miglioretti, \$544,177 total direct costs, 8/1/2007-7/31/2009

Role: Co-Principal Investigator

“Statistical Coordinating Center for the BCSC-Administrative Supplement (APRC),” NCI U01 CA086076

Principal Investigator: Diana Miglioretti, total costs \$491,085, 9/29/2009-9/29/2010

Role: Principal Investigator

“Statistical Coordinating Center for the BCSC-Administrative Supplement (BCSC-Medicare),” NCI U01 CA086076

Principal Investigator: Diana Miglioretti, total direct costs \$59,543, 8/1/2008-7/31/2010

Role: Principal Investigator

“Comparative Effectiveness of Breast Cancer Imaging Strategies in Community Practice” NCI 1RC2CA148577-01

Principal Investigator: Diana Miglioretti, \$4 million total costs, 9/30/2009-9/29/2011

Role: Contact Principal Investigator/co-Principal Investigator

“Understanding Variability in Community Mammography,” NCI R01 HS10591

Principal Investigator: Joann Elmore, \$627,862 total direct costs, 7/1/2004-5/31/2010

Role: Site Principal Investigator

“Dissemination Administrative Supplement to the Vermont Breast Cancer Surveillance System,” NCI U01CA070013-14S2

Principal Investigator: Berta Geller, \$44,375 total direct costs, 8/01/2008-7/31/2009

Role: Site Principal Investigator

“Medical Radiation Induced Cancers: CRN Pilot Y11” NCI U19 CA079689

Principal Investigator: Diana Miglioretti, \$106,149 total direct costs, 5/1/2009-4/31/2010

Role: Principal Investigator

“Screening Mammography in Elderly Women Using Linked BCSC- Medicare data,” NCIR03 CA139567

Principal Investigator: Shagufta Yasmeen, \$84,000, 6/1/2009-5/31/2011

Role: Site Principal Investigator

“Radiation Exposure from Medical Imaging: Are Doses in the Carcinogenic Range?” NCI R21CA131698

Principal Investigator: Rebecca Smith-Bindman, \$95,908 total direct costs, 7/1/2008-6/30/2010

Role: Site Principal Investigator

“Risk of Cancer in Incidental Findings Identified on Ultrasound Imaging,” NCI K24 CA125036

Principal Investigator: Rebecca Smith-Bindman, \$99,687 total direct costs, 7/1/2008-6/30/2013

Role: Site Principal Investigator

“Risk of Cancer with Incidental Findings Identified on Ultrasound Imaging,” NCI R21 CA132987

Principal Investigator: Rebecca Smith-Bindman, \$102,551, 4/1/2009-3/31/2011

Role: Site Principal Investigator

“Public Reporting of Mammography Facility Quality: How will the Facilities Serving Vulnerable Populations Fare?” California Breast Cancer Research Program R208002001

Principal Investigator: Elizabeth Goldman, \$28,199 total direct costs, 7/1/08 - 12/31/09

Role: Site Principal Investigator

“Assessing the Impact of Colorectal Cancer Screening,” NCI U01 CA97427

Principal Investigator: Carolyn Rutter, \$570,784 total direct costs, 9/11/2006-7/31/2010

Role: Co-Investigator

“Commonly Used Medications and Breast Cancer Recurrence,” NCI R01 CA1205621-01

Principal Investigator: Denise Boudreau, \$1,160,337 total direct costs, 9/1/2007-7/31/2012

Role: Co-investigator/Biostatistician

Completed Grants (past 3 years)

“Assessing and Improving Radiologist's Mammography Interpretive Skills,” NCI U01 CA086076

Principal Investigators: Diana Miglioretti, \$139,292 total direct costs, 8/1/2006-7/31/2007

Role: Principal Investigator

“A Partly Conditional Survival Approach for Modeling the Time-Varying Association between Breast Density and Breast Cancer Risk” NCI 263-MQ-612311

Principal Investigator: Diana Miglioretti, \$20,855 total direct costs, 9/20/2006-9/19/2007

Role: Principal Investigator

“Social Role Disability and Mental-Physical Co-Morbidity” NIMH R01 MH069864

Principal Investigator: Michael Von Korff, \$1,457,287 total direct costs, 1/1/2004-12/31/2007

Role: Biostatistician

“Trends in Diagnostic Imaging,” Center for Health Studies Research Development Fund

Principal Investigator: Diana Miglioretti, \$44,078 total direct costs, 1/01/2006-3/31/2007

Role: Principal Investigator

“Statin Use and the Risk of Site-Specific Cancers” NCI R03 CA108357

Principal Investigator: Denise Boudreau, \$100,000 total direct costs, 4/27/2004-3/31/2007

Role: Biostatistician